

KW fungicide; antiparasitic; antiarteriosclerotic; vulnery; cytostatic;  
 KW haemopoietic; haematologic; anaemia; autoimmune disorder;  
 KW rheumatoid arthritis; inflammation; Grave's disease; diabetes;  
 KW systemic lupus erythematosus; glomerulonephritis; neurodegenerative;  
 KW Parkinson's; Alzheimer's; wound; hyperproliferative; atherosclerosis;  
 KW cancer; bacterial; viral; fungal; parasitic infection; gene therapy;  
 KW human; gene; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 XX W02003038063-A2.  
 PN  
 XX  
 XX 08-MAY-2003.  
 PD  
 XX  
 XX 19-MAR-2002; 2002WO-US008277.  
 PF  
 XX  
 XX 21-MAR-2001; 2001US-0277340P.  
 PR  
 XX 19-JUN-2001; 2001US-0306171P.  
 PR  
 XX 13-NOV-2001; 2001US-0331287P.  
 XX  
 XX (HUMA-) HUMAN GENOME SCI INC.  
 PA  
 XX  
 XX Rosen CA, Ruben SM;  
 PI  
 XX WPI; 2003-430516/40.  
 DR  
 XX P-PSDB; ADC74152.  
 XX  
 XX New human secreted polypeptide for diagnosing, preventing or treating  
 PT hemopoietic or hematologic disorders (e.g. anemia), autoimmune  
 PT disorders (e.g. diabetes) or hyperproliferative disorders (e.g. cancer or  
 PT atherosclerosis).  
 XX  
 XX Claim 27; SEQ ID NO 170; 2272pp; English.  
 PS  
 XX  
 XX The invention relates to a novel human secreted polypeptide comprising a  
 CC defined sequence given in the specification. The polypeptide, nucleic  
 CC acid molecule, antibody, agonist or antagonist of the invention may be  
 CC useful for preparing a composition for diagnosing or treating a  
 CC haemopoietic or haematologic disorder such as anaemia, autoimmune  
 CC disorders such as rheumatoid arthritis, inflammation, Grave's disease,  
 CC diabetes, systemic lupus erythematosus or glomerulonephritis, and  
 CC neurodegenerative disorders including Parkinson's disease and Alzheimer's  
 CC disease, wounds and hyperproliferative disorders including  
 CC atherosclerosis or cancer, as well as bacterial, viral, fungal or  
 CC parasitic infections. The polypeptide may also be used during gene  
 CC therapy procedures and for identifying a binding partner by contacting  
 CC the polypeptide with a binding partner and determining whether the  
 CC binding partner increases or decreases the activity of the polypeptide.  
 CC The current sequence is that of the human secreted protein-related DNA of  
 CC the invention.  
 XX  
 XX Sequence 2152 BP; 541 A; 526 C; 531 G; 553 T; 0 U; 1 Other;

Query Match 95.3%; Score 2135.6; DB 10; Length 2152;  
 Best Local Similarity 99.8%; Pred. No. 0;  
 Matches 2148; Conservative 1; Mismatches 0; Indels 3; Gaps 1;  
 19 CCGCTTTGTTCCAGATGTAATAGCTCCACTATACAGCCTCGTCTTCCTTCGGGGG 78  
 1 CCGCTTTGTTCCAGATGTAATAGCTCCACTATACAGCCTCGTCTTCCTTCGGGGG 60  
 79 ACAACGTGGGTACAGGACAGAGAGATATTAATGTACACCTCTTGGGGGTTTCATGGGA 138  
 61 ACAACGTGGGTACAGGACAGAGAGATATTAATGTACACCTCTTGGGGGTTTCATGGGA 120  
 139 CTCCTCTGCCACATTTTTTGGAGTTGGAAAGTTCTAGAGCTTCAGAACTCCAGCC 198  
 121 CTCCTCTGCCACATTTTTTGGAGTTGGAAAGTTCTAGAGCTTCAGAACTCCAGCC 180  
 199 TAATGATCCCAACTCGGAGATGCTGGCTCCCTGCTGGCTG---TGCTGCTGCTG 255  
 181 TAATGATCCCAACTCGGAGATGCTGGCTCCCTGCTGGCTGCTGCTGCTGCTG 240

256 TGCTGGAGCGCGCATGTTCTCTCACCCTCCCGCGCGGCTGTAGAGAAAGTCT 315  
 241 TGCTGGAGCGCGCATGTTCTCTCACCCTCCCGCGCGGCTGTAGAGAAAGTCT 300  
 316 TCAGTACATTGACCTCCATCAGGATGAATTTGTGAGAGCGCTGAAGAGTGGTGCCA 375  
 301 TCAGTACATTGACCTCCATCAGGATGAATTTGTGAGAGCGCTGAAGAGTGGTGCCA 360  
 376 TCAGAGAGCGACTCTGTCCAGCCTGTGCTCGCTTCAGACAAGAGCTCTTCAGAAATGATGG 435  
 361 TCAGAGAGCGACTCTGTCCAGCCTGTGCTCGCTTCAGACAAGAGCTCTTCAGAAATGATGG 420  
 436 CCGTGGCTGCGGACACGCTGACGCGCTGGGGGCCGCTGTGGCTCGGTGACATGGGTC 495  
 421 CCGTGGCTGCGGACACGCTGACGCGCTGGGGGCCGCTGTGGCTCGGTGACATGGGTC 480  
 496 CTCAGAGCTGCCGATGGTTCAGAGTCTTCCAAATACCTCCGCTCATCTCGGCGAACTGG 555  
 481 CTCAGAGCTGCCGATGGTTCAGAGTCTTCCAAATACCTCCGCTCATCTCGGCGAACTGG 540  
 556 GGAGCGATCCACGAAAGGCGCTGTGCTTCTACGCGCACTTGGAGCTGCAGCTGCTGTG 615  
 541 GGAGCGATCCACGAAAGGCGCTGTGCTTCTACGCGCACTTGGAGCTGCAGCTGCTGTG 600  
 616 ACCGGGCGATGGGTGGCTCACGGACCCCTATGTCTGACGAGGTAGACGGGAACTTT 675  
 601 ACCGGGCGATGGGTGGCTCACGGACCCCTATGTCTGACGAGGTAGACGGGAACTTT 660  
 676 ATGAGAGAGAGCGACGACAAAGAGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCG 735  
 661 ATGAGAGAGAGCGACGACAAAGAGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCG 720  
 736 CTTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATCATTTAGGGGATGG 795  
 721 CTTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATCATTTAGGGGATGG 780  
 796 AAGAGCTGCTCTGTTGGCTCGAGGAACTTGTGGAAGAAAGAAAGACCGATTTCTTCT 855  
 781 AAGAGCTGCTCTGTTGGCTCGAGGAACTTGTGGAAGAAAGAAAGACCGATTTCTTCT 840  
 856 CTGCTGTGACTACATTTGAATTTTCAGATTAACCTGTGGATCAGCCAAAGAACGACGAA 915  
 841 CTGCTGTGACTACATTTGAATTTTCAGATTAACCTGTGGATCAGCCAAAGAACGACGAA 900  
 916 TCATTTATGAAACCCGGGGAACAGCTACTTCTATGTTGGAGGTGAATGACAGACGAGG 975  
 901 TCATTTATGAAACCCGGGGAACAGCTACTTCTATGTTGGAGGTGAATGACAGACGAGG 960  
 976 ATTTTCACCTCAGGAACCTTTGGTGGCATCTTTCATGAACCAATGGCTGATCTGTTGCTC 1035  
 961 ATTTTCACCTCAGGAACCTTTGGTGGCATCTTTCATGAACCAATGGCTGATCTGTTGCTC 1020  
 1036 TTCTCGGTAGCTGGTAGACTCTGCTGGTCAATCTCTGTCCTGTCCTGGAATCTATGATGAAG 1095  
 1021 TTCTCGGTAGCTGGTAGACTCTGCTGGTCAATCTCTGTCCTGTCCTGGAATCTATGATGAAG 1080  
 1096 TGGTCTCTTACAGAGAGGAATTAATACATACAAAGCCATCCATCTAGACCTAGAG 1155  
 1081 TGGTCTCTTACAGAGAGGAATTAATACATACAAAGCCATCCATCTAGACCTAGAG 1140  
 1156 AATACCGGAATAGCAGCCGGTTGAGAAATTTCTGTTCCATATAAGGAGAGATTTCTAA 1215  
 1141 AATACCGGAATAGCAGCCGGTTGAGAAATTTCTGTTCCATATAAGGAGAGATTTCTAA 1200  
 1216 TGACCTCTGGAGGTACCAATCTCTTTTATTCATGGGATCGAGGGCGCTTTGATGAGC 1275  
 1201 TGACCTCTGGAGGTACCAATCTCTTTTATTCATGGGATCGAGGGCGCTTTGATGAGC 1260  
 1276 CTGGAATAAAGCAGTCATACCTGGCGGAGTTATAGGAAATTTTCAATCCGCTAGTCC 1335  
 1261 CTGGAATAAAGCAGTCATACCTGGCGGAGTTATAGGAAATTTTCAATCCGCTAGTCC 1320  
 1336 CTCACATGAATGTCTGCGGTGGAAAAACAGGTGACACGACATCTTGAAGATGTGTTCT 1395

Db 1321 CTCACATGATGTCTCGGGTGGAAAAACAGGTGCACGACATCTTGAAGATGTCT 1380  
QY 1396 CCAAAAGAAATAGTTCACAAAGATGGTGTTCATGACTCTAGGACTACACCGGTGA 1455  
Db 1381 CCAAAAGAAATAGTTCACAAAGATGGTGTTCATGACTCTAGGACTACACCGGTGA 1440  
QY 1456 TTGCAAAATATGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAAGACAGTGTG 1515  
Db 1441 TTGCAAAATATGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAAGACAGTGTG 1500  
QY 1516 GAACGAACACAGATATGATCGGGATGGATCCACCATTCCAATTCGCAAAATGTTCCAGG 1575  
Db 1501 GAACGAACACAGATATGATCGGGATGGATCCACCATTCCAATTCGCAAAATGTTCCAGG 1560  
QY 1576 AGATCGTCCACAGAGCGTGTCTAATTCGGCTGGAGCTGTGTGATGATGAGAAAT 1635  
Db 1561 AGATCGTCCACAGAGCGTGTCTAATTCGGCTGGAGCTGTGTGATGATGAGAAAT 1620  
QY 1636 CGCAGATGAGAAATCAACAGGTGGAATACATAGAGGGAACCAATTTATTTGCTGCCT 1695  
Db 1621 CGCAGATGAGAAATCAACAGGTGGAATACATAGAGGGAACCAATTTATTTGCTGCCT 1680  
QY 1696 TTTTCTTAGAGATGGCCAGCTCCATTAATCAAGAACTTCTAGTCTGATCTGATCCA 1755  
Db 1681 TTTTCTTAGAGATGGCCAGCTCCATTAATCAAGAACTTCTAGTCTGATCTGATCCA 1740  
QY 1756 CTGACAGATTCACCTCCCCACATCCCTAGACAGGGATGAAATGTAATATCCAGAAAT 1815  
Db 1741 CTGACAGATTCACCTCCCCACATCCCTAGACAGGGATGAAATGTAATATCCAGAAAT 1800  
QY 1816 TTGGGTCTAGTATAGTACATTTTCCCTTCCATTTAAATGCTTTGGATATCTGGATCAG 1875  
Db 1801 TTGGGTCTAGTATAGTACATTTTCCCTTCCATTTAAATGCTTTGGATATCTGGATCAG 1860  
QY 1876 TAATAAAATATTTCAAAGGCACAGATGTTGGAAATGTTTAAGTCCCCACCTGCACAC 1935  
Db 1861 TAATAAAATATTTCAAAGGCACAGATGTTGGAAATGTTTAAGTCCCCACCTGCACAC 1920  
QY 1936 TTCTCAAGTCATAGCTGCTTGACGAACTGATTTTCCCAAGTCTGTGCAATAGCCCC 1995  
Db 1921 TTCTCAAGTCATAGCTGCTTGACGAACTGATTTTCCCAAGTCTGTGCAATAGCCCC 1980  
QY 1996 AGATTGGATTCTTCAACCTTTTAGCATATCTCACAACCTTGAATTTGATTGGCATAA 2055  
Db 1981 AGATTGGATTCTTCAACCTTTTAGCATATCTCACAACCTTGAATTTGATTGGCATAA 2040  
QY 2056 TCACTCCGGTTTGTCTTCTAGGTCCTCAAGTCTCGTGACACATAATCAATCCATCAAT 2115  
Db 2041 TCACTCCGGTTTGTCTTCTAGGTCCTCAAGTCTCGTGACACATAATCAATCCATCAAT 2100  
QY 2116 GATCGCTTTGCTTTACCACTCTTCTTTTATCTTATTAATAAAATGTTG 2167  
Db 2101 GATCGCTTTGCTTTACCACTCTTCTTTTATCTTATTAATAAAATGTTG 2152

RESULT 21  
ADEL1660  
ID ADEL1660 standard; cDNA; 2152 BP.  
XX AC ADEL1660;  
DT XX  
XX 29-JAN-2004 (first entry)  
DE Human secreted polypeptide cDNA #22.  
XX Secreted protein; cancer; liver disorder; hepatitis; neural disorder;  
KW Alzheimer's disease; human; ss; gene.  
XX Synthetic.  
OS Homo sapiens.  
XX  
PN US2003100051-A1.

XX 29-MAY-2003.  
PF 10-SEP-2001; 2001US-00948783.  
PR 12-MAY-1998; 98US-0085093P.  
PR 12-MAY-1998; 98US-0085094P.  
PR 12-MAY-1998; 98US-0085105P.  
PR 12-MAY-1998; 98US-0085180P.  
PR 18-MAY-1998; 98US-0085308P.  
PR 18-MAY-1998; 98US-0085920P.  
PR 18-MAY-1998; 98US-0085921P.  
PR 18-MAY-1998; 98US-0085922P.  
PR 18-MAY-1998; 98US-0085923P.  
PR 18-MAY-1998; 98US-0085924P.  
PR 18-MAY-1998; 98US-0085925P.  
PR 18-MAY-1998; 98US-0085927P.  
PR 18-MAY-1998; 98US-0085928P.  
PR 06-MAY-1999; 99WO-US009847.  
PR 10-NOV-1999; 99US-00437658.  
PR 11-SEP-2000; 2000US-0231846P.  
PR 28-JUN-2001; 2001US-00892877.  
XX (RUBE/) RUBEN S M.  
PA (FLOR/) FLORENCE K A.  
PA (NIJ/) NI J.  
PA (ROSE/) ROSEN C A.  
PA (CART/) CARTER K C.  
PA (MOOR/) MOORE P A.  
PA (OLSE/) OLSEN H S.  
PA (SHIY/) SHI Y.  
PA (YOUN/) YOUNG P E.  
PA (WEIY/) WEI Y.  
PA (BREW/) BREWER L A.  
PA (SOPP/) SOPPET D R.  
PA (LAFLE/) LAFLEUR D W.  
PA (ENDR/) ENDRESS G A.  
PA (EBNE/) EBNER R.  
PA (BIRS/) BIRSE C E.  
XX Ruben SM, Florence KA, Ni J, Rosen CA, Carter KC, Moore PA;  
PI Olsen HS, Shi Y, Young PE, Wei Y, Brewer LA, Soppet DR, Lafleur DW;  
PI Endress GA, Ebner R, Birse CE;  
WPI; 2003-801210/75.  
XX New nucleic acid molecule, useful for preparing a medicament for  
PT preventing, treating or ameliorating a medical condition e.g. cancer,  
PT liver disorders or neural disorders.  
XX Claim 1; SEQ ID NO 32; 453pp: English.  
XX The invention relates to human secreted polypeptides and the  
CC polynucleotides encoding them. The sequences are useful for preparing  
CC medicaments for preventing, treating or ameliorating medical conditions  
CC e.g., cancer, liver disorders such as hepatitis or neural disorders such  
CC as Alzheimer's disease. This sequence represents cDNA encoding a human  
CC secreted polypeptide of the invention.  
XX Sequence 2152 BP; 541 A; 526 C; 531 G; 553 T; 0 U; 1 Other;  
SQ

Query Match 95.3%; Score 2135.6; DB 10; Length 2152;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 2148; Conservative 1; Mismatches 0; Indels 3; Gaps 1;  
QY 19 CCGCTTTGTTCTCCAGATGTGAATAGTCCACTATACAGCCTCGTCTTCTTCCGCGGG 78  
Db 1 CCGCTTTGTTCTCCAGATGTGAATAGTCCACTATACAGCCTCGTCTTCTTCCGCGGG 60  
QY 79 ACAACGTGGGTGAGGCGACAGAGAGATATTTAATGTACCCCTTTGGGGTTCATGGGA 138  
Db 61 ACAACGTGGGTGAGGCGACAGAGAGATATTTAATGTACCCCTTTGGGGTTCATGGGA 120

Qy 139 CTCCTCTGCGACATTTTGGAGGTTGGGAAAGTTGCTAGAGGCTTCAGAACTCCAGCC 198  
Db 121 CTCCTCTGCGACATTTTGGAGGTTGGGAAAGTTGCTAGAGGCTTCAGAACTCCAGCC 180  
Qy 199 TAATGGATCCCAAACTCGGAGAAATGCGTGGTCCCTGCTGGCTG---TGCTGCTGTC 255  
Db 181 TAATGGATCCCAAACTCGGAGAAATGCGTGGTCCCTGCTGGCTGCTGCTGCTGCTG 240  
Qy 256 TGCTGGAGCGCGCATGTTCTCCTCACCTCCCGCGCCCGCGCGCTGTTAGAGAAAGTCT 315  
Db 241 TGCTGGAGCGCGCATGTTCTCCTCACCTCCCGCGCCCGCGCGCTGTTAGAGAAAGTCT 300  
Qy 316 TCCAGTACATTCACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGAGTGGGTGGCCA 375  
Db 301 TCCAGTACATTCACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGAGTGGGTGGCCA 360  
Qy 376 TCGAGAGGCACTGTCGAGCCTGTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 435  
Db 361 TCGAGAGGCACTGTCGAGCCTGTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420  
Qy 436 CCGTGGCTGCGGACACGCTGCGAGCCTGCGGCGCCCGTGTGGCTCGGTGGACATGGTGC 495  
Db 421 CCGTGGCTGCGGACACGCTGCGAGCCTGCGGCGCCCGTGTGGCTCGGTGGACATGGTGC 480  
Qy 496 CTCAGCAGCTGCCCGATGGTCAGAGTCTTCCAATACCTCCCGTCATCTGGCCGAACTGG 555  
Db 481 CTCAGCAGCTGCCCGATGGTCAGAGTCTTCCAATACCTCCCGTCATCTGGCCGAACTGG 540  
Qy 556 GGACGATCCCAAGGAGCAACGCTGCTCTACGGGCACTTGGAGCTGCGAGCCTGCTG 615  
Db 541 GGACGATCCCAAGGAGCAACGCTGCTCTACGGGCACTTGGAGCTGCGAGCCTGCTG 600  
Qy 616 ACCGGGCGATGGTGGCTCACGGACCCCTATGCTGACGGAGGTAGACGGGAACTTT 675  
Db 601 ACCGGGCGATGGTGGCTCACGGACCCCTATGCTGACGGAGGTAGACGGGAACTTT 660  
Qy 676 ATGACGAGGAGCGACCGAACAAAGGCCCTGCTTTGGCTGGATCAATGCTGTGAGCG 735  
Db 661 ATGACGAGGAGCGACCGAACAAAGGCCCTGCTTTGGCTGGATCAATGCTGTGAGCG 720  
Qy 736 CCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATATTGAGGGATGG 795  
Db 721 CCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATATTGAGGGATGG 780  
Qy 796 AAGAGGCTGGCTGTTGCTCCCTGAGGAACTTGTGGAAAGAAAGAACCGATTCTTCT 855  
Db 781 AAGAGGCTGGCTGTTGCTCCCTGAGGAACTTGTGGAAAGAAAGAACCGATTCTTCT 840  
Qy 856 CTGCTGTGGAATACATTTGTAATTTTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAGAA 915  
Db 841 CTGCTGTGGAATACATTTGTAATTTTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAGAA 900  
Qy 916 TCACCTATGNAACCCGGGGGNAAGCTACTTTCATGTTGGAGGTGAATTCAGAGACGAGG 975  
Db 901 TCACCTATGNAACCCGGGGGNAAGCTACTTTCATGTTGGAGGTGAATTCAGAGACGAGG 960  
Qy 976 ATTTTCACTCAGGAACCTTTGGTGGCATCTTTCATGAACCAATGGCTGATCTGGTCTC 1035  
Db 961 ATTTTCACTCAGGAACCTTTGGTGGCATCTTTCATGAACCAATGGCTGATCTGGTCTC 1020  
Qy 1036 TTCTCGGTAGCCTGGTACGCTGCTGGTCATATCTGGTCCCTGGAATCTATGATGAAG 1095  
Db 1021 TTCTCGGTAGCCTGGTACGCTGCTGGTCATATCTGGTCCCTGGAATCTATGATGAAG 1080  
Qy 1096 TGGTTCCTCTTACAGAGAGGAAATAATACATACAAAGCCATCCATCTAGACCTAGAAG 1155  
Db 1081 TGGTTCCTCTTACAGAGAGGAAATAATACATACAAAGCCATCCATCTAGACCTAGAAG 1140  
Qy 1156 AATACCGGAATAGCAGCGGGTTCAGAAATTTCTGTTTCGATCTACTAAGGAGGATTTCTAA 1215  
Db 1141 AATACCGGAATAGCAGCGGGTTCAGAAATTTCTGTTTCGATCTACTAAGGAGGATTTCTAA 1200  
Qy 1216 TGCACCTCTGAGGATACCCATCTCTTCTATTTCATGGGATCGAGGGCGCTTGTATGAGC 1275

Db 1201 TGCACCTCTGAGGTACCCATCTCTTCTATTATGCGATCGAGGCGCGTTTGTATGAGC 1260  
Qy 1276 CTGGAACATAAAACAGTCATACCTGCGCGAGTTATAGGAAATTTTCAATCGCTTAGTCC 1335  
Db 1261 CTGGAACATAAAACAGTCATACCTGCGCGAGTTATAGGAAATTTTCAATCGCTTAGTCC 1320  
Qy 1336 CTACATGAATGTCTGCGGTGGAATAACAGGTGACACGACATCTTTGAAGATGTGTCT 1395  
Db 1321 CTACATGAATGTCTGCGGTGGAATAACAGGTGACACGACATCTTTGAAGATGTGTCT 1380  
Qy 1396 CCAAAAGAAATAGTTTCCAAACAGATGGTGTGTTTCCATGACTCTAGGACTACACCCGTGA 1455  
Db 1381 CCAAAAGAAATAGTTTCCAAACAGATGGTGTGTTTCCATGACTCTAGGACTACACCCGTGA 1440  
Qy 1456 TTGCAATATTTGATGACACCCAGTATCTCGCAGCAAAAAGCGATCAGAACAGTGTG 1515  
Db 1441 TTGCAATATTTGATGACACCCAGTATCTCGCAGCAAAAAGCGATCAGAACAGTGTG 1500  
Qy 1516 GAACAGAACAGATATGATCCGGATGATCCACATTTCCAAATTTGCCAAATTTTCCAGG 1575  
Db 1501 GAACAGAACAGATATGATCCGGATGATCCACATTTCCAAATTTGCCAAATTTTCCAGG 1560  
Qy 1576 AGATCGTCCAACAGAGCGTGTCTAATTCGCTGGAGCTGTGTGATGATGAGAAACATT 1635  
Db 1561 AGATCGTCCAACAGAGCGTGTCTAATTCGCTGGAGCTGTGTGATGATGAGAAACATT 1620  
Qy 1636 CGCAGATGAGAAATCAACAGGTGGAACTACATAGAGGAAACCAATTTTGTCTGCT 1695  
Db 1621 CGCAGATGAGAAATCAACAGGTGGAACTACATAGAGGAAACCAATTTTGTCTGCT 1680  
Qy 1696 TTTTCTTAGAGATGGCCAGCTCCATTAATCAACAAGAACCTTCTAGTCTGATCTGATCCA 1755  
Db 1681 TTTTCTTAGAGATGGCCAGCTCCATTAATCAACAAGAACCTTCTAGTCTGATCTGATCCA 1740  
Qy 1756 CTACAGATTCACCTCCCCACATCCCTAGACAGGGATGAAATGTAATATTCAGAGAAAT 1815  
Db 1741 CTACAGATTCACCTCCCCACATCCCTAGACAGGGATGAAATGTAATATTCAGAGAAAT 1800  
Qy 1816 TTGGGTCTAGTATAGTACATTTTCCCTTCCATTTTAAATGCTTGGGATATCTGGATCAG 1875  
Db 1801 TTGGGTCTAGTATAGTACATTTTCCCTTCCATTTTAAATGCTTGGGATATCTGGATCAG 1860  
Qy 1876 TAATAAAATATTTCAAAGGCACAGATGTTGGAATGTTTAAAGTCCCCCACTGCACACC 1935  
Db 1861 TAATAAAATATTTCAAAGGCACAGATGTTGGAATGTTTAAAGTCCCCCACTGCACACC 1920  
Qy 1936 TTCTCAAGTCATAGTGTGTCAGCAACTTTGATTTCCCAAGTCTGTGCAATAGCCCC 1995  
Db 1921 TTCTCAAGTCATAGTGTGTCAGCAACTTTGATTTCCCAAGTCTGTGCAATAGCCCC 1980  
Qy 1996 AGGATGGATTCCTTCCAACTTTTACCATATCTCCAACTTCCAACTTTCGATTTGGCATAA 2055  
Db 1981 AGGATGGATTCCTTCCAACTTTTACCATATCTCCAACTTTCGATTTGGCATAA 2040  
Qy 2056 TCACTCCGGTTGCTTCTAGTCTCAAGTCTCGTGACACATAATCAATTCATCCCAAT 2115  
Db 2041 TCACTCCGGTTGCTTCTAGTCTCCTCAAGTCTCGTGACACATAATCAATTCATCCCAAT 2100  
Qy 2116 GATCGCTTTGCTTTACCACTCTTTCTTTTATCTTTTATTAATAAATGTTG 2167  
Db 2101 GATCGCTTTGCTTTACCACTCTTTCTTTTATCTTTTATTAATAAATGTTG 2152

## RESULT 22

ABL90090  
ID ABL90090 standard; cdna; 2039 BP.

XX ABL90090;

AC ABL90090;

XX 24-MAY-2002 (first entry)

XX Human polynucleotide SEQ ID NO 652.





















QY 705 CTTGCTCTGGCTTGGATCAATGCTGTGAGCGCTTCAGAGCCCTCGAGCAAGATCTTCT 764  
Db 521 CTGTCTTGGCTTGGATCAATGCTGTGAGCGCTTCAGAGCCCTCGAGCAAGATCTTCT 580  
QY 765 GTGAATATCAAAATTCATATTGAGGGATGGAAGAGCGTGGCTCTGTTGCCCTGGAGGAA 824  
Db 581 GTGAATATCAAAATTCATATTGAGGGATGGAAGAGCGTGGCTCTGTTGCCCTGGAGGAA 640  
QY 825 CTTGTGAAAAAGAAAGAACCGATTCTTCTCTGGTGTGAGCTACATTTGATTTTCAGAT 884  
Db 641 CTTGTGAAAAAGAAAGAACCGATTCTTCTCTGGTGTGAGCTACATTTGATTTTCAGAT 700  
QY 885 AACCTGTGATCAGCCAAAGGAAGCAGCAATCACTTATGGAACCGGGGGAACAGCTAC 944  
Db 701 AACCTGTGATCAGCCAAAGGAAGCAGCAATCACTTATGGAACCGGGGGAACAGCTAC 760  
QY 945 TTATGCTGGAGTGAAATGCAGAGACCAAGGATTTTCTACTCAGGAACCTTTGGTGGCATC 1004  
Db 761 TTATGCTGGAGTGAAATGCAGAGACCAAGGATTTTCTACTCAGGAACCTTTGGTGGCATC 820  
QY 1005 CTTTCATGAACCAATGCTGATCTGGTGTGCTTCTCTCGGTAGCTGTAGACTCGTCTGCT 1064  
Db 821 CTTTCATGAACCAATGCTGATCTGGTGTGCTTCTCTCGGTAGCTGTAGACTCGTCTGCT 880  
QY 1065 CATATCTCTGCTCCCTGGAATCTATGATGAAGTGTTCTCTTACAGAAGAGAAATAAAT 1124  
Db 881 CATATCTCTGCTCCCTGGAATCTATGATGAAGTGTTCTCTTACAGAAGAGAAATAAAT 940  
QY 1125 ACATACAAAGCCATCCATCTAGACCTAGAGAAATACCGGAATAGCAGCGGGTTGAGAAA 1184  
Db 941 ACATACAAAGCCATCCATCTAGACCTAGAGAAATACCGGAATAGCAGCGGGTTGAGAAA 1000  
QY 1185 TTTCCTGTTGATCTAAGAGAGGATTTAAATGCACCTCTGAGGTTACCCATCTCTTTCT 1244  
Db 1001 TTTCCTGTTGATCTAAGAGAGGATTTAAATGCACCTCTGAGGTTACCCATCTCTTTCT 1060  
QY 1245 ATTATGAGATCGAGGCGGTTTATGATGAGCTTGAACCTTAAACAGTACATCTGCGCGA 1304  
Db 1061 ATTATGAGATCGAGGCGGTTTATGATGAGCTTGAACCTTAAACAGTACATCTGCGCGA 1120  
QY 1305 GTTATAGGAAAAATTTTCAATCCGCTAGTCCCTCACATGAATGTGCTCGGTGGAAAAA 1364  
Db 1121 GTTATAGGAAAAATTTTCAATCCGCTAGTCCCTCACATGAATGTGCTCGGTGGAAAAA 1180  
QY 1365 CAGGTGACAGCATCTTGAAGATGTTCTCCAAAGAAATAGTTCCACAGATGTT 1424  
Db 1181 CAGGTGACAGCATCTTGAAGATGTTCTCCAAAGAAATAGTTCCACAGATGTT 1240  
QY 1425 GTTTCATGACTTAGGACTACACCCGTGGATTGCAAAATATTGATGACACCCAGTATCTC 1484  
Db 1241 GTTTCATGACTTAGGACTACACCCGTGGATTGCAAAATATTGATGACACCCAGTATCTC 1300  
QY 1485 GCAGCAAAAGAGCGATCAGAACAGTGTGTTGGAACAGAACCGAGATATGATCGGGATGA 1544  
Db 1301 GCAGCAAAAGAGCGATCAGAACAGTGTGTTGGAACAGAACCGAGATATGATCGGGATGA 1360  
QY 1545 TCCACCATTTCCAAATTCGCAAAATGTTCCAGGAGATCGTCCACAGAGCGTGGCTAAAT 1604  
Db 1361 TCCACCATTTCCAAATTCGCAAAATGTTCCAGGAGATCGTCCACAGAGCGTGGCTAAAT 1420  
QY 1605 CCGCTGGGAGCTGTTGATGATGAGAAACATTCGCAATGAGAAAAATCAACAGGTGGAAC 1664  
Db 1421 CCGCTGGGAGCTGTTGATGATGAGAAACATTCGCAATGAGAAAAATCAACAGGTGGAAC 1480  
QY 1665 TACATAGAGGAAACCAAAATTTATGCTGCTTTTCTTAGAGATGCCCGAGTCCATTAA 1724  
Db 1481 TACATAGAGGAAACCAAAATTTATGCTGCTTTTCTTAGAGATGCCCGAGTCCATTAA 1540  
QY 1725 TCACAGAACCTTCTAGTCTGATCTGATCCACTGACAGATTCACCTC 1771  
Db 1541 TCACAGAACCTTCTAGTCTGATCTGATCCACTGACAGATTCACCTC 1587

RESULT 29  
AAS97191  
ID AAS97191 standard; cDNA; 1524 BP.  
XX  
AC AAS97191;  
DT 26-FEB-2002 (first entry)  
XX  
DE Human metalloprotease partial DNA sequence #20.  
XX  
KW Human; protease; PCR primer; cytostatic; immunomodulator; cardiant;  
KW vasotropic; antimigraine; analgesic; endocrine; nootropic; tranquiliser;  
KW hypertensive; hypotensive; neuroleptic; neuroprotective; anabolic;  
KW anorectic; antiinflammatory; aspartyl protease; cysteine protease;  
KW metalloprotease; serine protease; cancer; haematopoietic; breast; colon;  
KW lung; prostate; cervical; brain; ovarian; bladder; kidney; pain;  
KW immune-related disease; cardiovascular disease; neuronal disease;  
KW migraine; sexual dysfunction; mood disorder; attention disorder;  
KW cognition disorder; hypotension; hypertension; psychotic disorder;  
KW dyskinesia; metabolic disorder; inflammatory disorder; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200183782-A2.  
XX  
XX 08-NOV-2001.  
XX  
PF 04-MAY-2001; 2001WO-US014431.  
XX  
PR 04-MAY-2000; 2000US-0201879P.  
XX  
XX (SUGEN-) SUGEN INC.  
XX  
XX Plowman GD, Whyte D, Sudarsanam S, Manning G, Caenepeel S;  
PI Payne V;  
XX  
XX WPI; 2002-041502/05.  
DR P-PSDB; AAU72908.  
XX  
PT Novel protease polypeptide useful for screening for substances that may  
PT be used to treat, e.g., cancers, immune-related diseases, cardiovascular  
PT disease, migraine, pain, psychotic and inflammatory disorders.  
XX  
PS Claim 30; Fig 1U-V; 232pp; English.  
XX  
CC The invention relates to an isolated, enriched, or purified protease  
CC polypeptide (I) and polynucleotide (II) encoding (I). (i) may be used to  
CC screen for substances (S) that may modulate its activity. Administering S  
CC (which modulates protease activity in vitro) may be used to treat a  
CC disease or disorder selected from cancers (e.g., of tissues, of blood or  
CC haematopoietic origin, of the breast, colon, lung, prostate, cervical,  
CC brain, ovarian, bladder or kidney), immune-related diseases and  
CC disorders, cardiovascular disease, brain or neuronal-associated diseases  
CC (e.g., central or peripheral nervous system diseases, migraine, pain,  
CC sexual dysfunction, mood disorders, attention disorders, cognition  
CC disorders, hypotension, hypertension, psychotic disorders, neurological  
CC disorders and dyskinesias), metabolic disorders and inflammatory  
CC disorders. (i) may also be useful as a diagnostic tool for a disease or  
CC disorder such as those above. AAS97159-AAS97195 represent human protease  
CC coding sequences and primers of the invention  
XX  
SQ Sequence 1524 BP; 386 A; 366 C; 413 G; 359 T; 0 U; 0 Other;

Query Match 68.0%; Score 1524; DB 6; Length 1524;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1524; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 201 ATGGATCCCAAACTCGGGAGAATGGCTGGCTCCCTGCTGCTGCTGCTGCTGCTGCTG 260  
Db 1 ATGGATCCCAAACTCGGGAGAATGGCTGGCTCCCTGCTGCTGCTGCTGCTGCTGCTG 60  
QY 261 GAGCGCGGCATGTTTCTCTCACCCCTCCCGCCCCCGCGCTGTTAGAGAAAAGTCTTCCAG 320



Query Match	67.8%;	Score 1521;	DB 6;	Length 1521;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1521;	Conservative	0;	Mismatches	0;
Indels	0;	Gaps	0;	
Qy	201	ATGGATCCAAACTCGGGAGAAATGGTGTGGTCCCTGCTGGCTGTGTGCTGTGCTGTGCTGTGCTG	260	
Db	1	ATGGATCCAAACTCGGGAGAAATGGTGTGGTCCCTGCTGGCTGTGTGCTGTGCTGTGCTGTGCTG	60	
Qy	261	GAGGGGGCATGTTCTCCACACCTCCCGCCCCCGCGCTGTTACGAGAAAGTCTTCCAG	320	
Db	61	GAGGGGGCATGTTCTCTCACCTCCCCCGCCCCCGCGCTGTTACGAGAAAGTCTTCCAG	120	
Qy	321	TACATTGACCTCCATCAGATGAATTTGTGCAGACGCTGAAGAGTGGGTGCGCATTCGAG	380	
Db	121	TACATTGACCTCCATCAGATGAATTTGTGCAGACGCTGAAGAGTGGGTGCGCATTCGAG	180	
Qy	381	AGCGACTCTGTCCAGCTGTGCCCTTCAGACAGAGCTCTTCAGATGATGGCCGCTG	440	
Db	181	AGCGACTCTGTCCAGCTGTGCCCTTCAGACAGAGCTCTTCAGATGATGGCCGCTG	240	
Qy	441	GCTCGGACACGTGCAGCGCCTGGGGGCCCGTGTGGCTCGGTGGACATGGGTCTCTCAG	500	
Db	241	GCTCGGACACGTGCAGCGCCTGGGGGCCCGTGTGGCTCGGTGGACATGGGTCTCTCAG	300	
Qy	501	CAGTGTCCCGATGTCAGATCTTCCAACTCTCCGTATCTCTGGCCGAACTCGGGAGC	560	
Db	301	CAGTGTCCCGATGTCAGATCTTCCAACTCTCCGTATCTCTGGCCGAACTCGGGAGC	360	
Qy	561	GATCCACAGAAAGCACCGTGTCTCTACGGCCACTTGCAGCTGCAGCTGTGACCCGG	620	
Db	361	GATCCACAGAAAGCACCGTGTCTCTACGGCCACTTGCAGCTGCAGCTGTGACCCGG	420	
Qy	621	GGCGATGGGTGGCTCAGCGACCCCTATGTCTGACGGAGGTAGACGGGAACTTTATGGA	680	
Db	421	GGCGATGGGTGGCTCAGCGACCCCTATGTCTGACGGAGGTAGACGGGAACTTTATGGA	480	
Qy	681	CGAGGGGACCGACAAAGGCCCTGTCTGGCTTGGATCAATCTGTGAGCGCTTC	740	
Db	481	CGAGGGGACCGACAAAGGCCCTGTCTGGCTTGGATCAATCTGTGAGCGCTTC	540	
Qy	741	AGAGCCCTGGAGCAAGATCTTCTGTGAAATATCAAATTCATATGAGGGGATGGAAGAG	800	
Db	541	AGAGCCCTGGAGCAAGATCTTCTGTGAAATATCAAATTCATATGAGGGGATGGAAGAG	600	
Qy	801	GCTGGCTCTGTGGCTTGAGGAACTTGTGGAAGAAAGAAAGACCAATTTCTCTGTGT	860	
Db	601	GCTGGCTCTGTGGCTTGAGGAACTTGTGGAAGAAAGAAAGACCAATTTCTCTGTGT	660	
Qy	861	GTGACTACATTTGTAATTTACAGATAACTGTGGATCAGCCAAAAGAGACGACCAATCACT	920	
Db	661	GTGACTACATTTGTAATTTACAGATAACTGTGGATCAGCCAAAAGAGACGACCAATCACT	720	
Qy	921	TATGGAACCCGGGGAAACAGCTATTCATGTGGAGGTGAAATCGACAGACCAGGATTTT	980	
Db	721	TATGGAACCCGGGGAAACAGCTATTCATGTGGAGGTGAAATCGACAGACCAGGATTTT	780	
Qy	981	CACCTCAGGAACCTTTGGTGGCATCTTCCATGAAACCAATGGCTGATCTGGTTGCTCTCTC	1040	
Db	781	CACCTCAGGAACCTTTGGTGGCATCTTCCATGAAACCAATGGCTGATCTGGTTGCTCTCTC	840	
Qy	1041	GGTAGCCTGGTAGACTCGTCTGGTCAATCTCTGGTCCCTGGAAATCTATGTAAGAGTGTT	1100	



RESULT 32	Db	1543	CTCTACGGTCTTAAGAGCGACCTGCATGAGAGACCTTGACTGGGCTTGGATCAATGCTGTG	1484
AAI61091/c	Qy	732	AGCGCTTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATTTGAGGGG	791
ID AAI61091 standard; cDNA; 1569 BP.	Dd	1483	AGCGCTTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATTTGAGGGG	1424
AAI61091;	Qy	792	ATGGAAGAGCGTGGCTCTGTTGCCCTGGAGGAACCTTGTCGAAAAAGAAAGGACCCATTC	851
22-OCT-2001 (first entry)	Dd	1423	ATGGAAGAGCGTGGCTCTGTTGCCCTGGAGGAACCTTGTCGAAAAAGAAAGGACCCATTC	1364
Human polynucleotide SEQ ID NO 5080.	Qy	852	TTCTCTGGTGTGGACTACATTTGTAATTTTCAGATAAACCCTGTGGATCAGCCAAAGAGAACCA	911
Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;	Dd	1363	TTCTCTGGTGTGGACTACATTTGTAATTTTCAGATAAACCCTGTGGATCAGCCAAAGAGAACCA	1304
peripheral nervous system; neuropathy; central nervous system; CNS;	Qy	912	GCAATCATTATGGAACCCCGGGGAAACAGCTACTTTCATGGTGGAGGTGAAATGACAGAC	971
Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;	Dd	1303	GCAATCATTATGGAACCCCGGGGAAACAGCTACTTTCATGGTGGAGGTGAAATGACAGAC	1244
amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;	Qy	972	CAGGATTTTCACTCAGGAACCTTTGGTGGCATCTTTCATGAACCAATGGCTGATCTGGTT	1031
chemokinetic; thrombolytic; drug screening; arthritis; inflammation;	Dd	1243	CAGGATTTTCACTCAGGAACCTTTGGTGGCATCTTTCATGAACCAATGGCTGATCTGGTT	1184
leukaemia; BS.	Qy	1032	GCTCTTCTCGTAGCCTGTGTAGACTCTGTGTGCATATCTCTGTCTCATCTCTGCTGAAATCTATGAT	1091
Homo sapiens.	Dd	1183	GCTCTTCTCGTAGCCTGTGTAGACTCTGTGTGCATATCTCTGTCTCATCTCTGCTGAAATCTATGAT	1124
WO200153312-A1.	Qy	1092	GAAAGTGTCTCTTTACAGAGAGGAATAAATATACATACAAAGCCATCCATCTAGACCTA	1151
26-JUL-2001.	Dd	1123	GAAAGTGTCTCTTTACAGAGAGGAATAAATATACATACAAAGCCATCCATCTAGACCTA	1064
26-DEC-2000; 2000WO-US034263.	Qy	1152	GAAAGTGTCTCTTTACAGAGAGGAATAAATATACATACAAAGCCATCCATCTAGACCTA	1211
23-DEC-1999; 99US-00471275.	Dd	1063	GAAAGTGTCTCTTTACAGAGAGGAATAAATATACATACAAAGCCATCCATCTAGACCTA	1004
21-JAN-2000; 2000US-00488725.	Qy	1212	CTAATGCACCTCTGGAGTACCCATCTCTTTCTATTTCATGGGATCAGGGCGCGTTTGTAT	1271
25-APR-2000; 2000US-0052317.	Dd	1003	CTAATGCACCTCTGGAGTACCCATCTCTTTCTATTTCATGGGATCAGGGCGCGTTTGTAT	944
20-JUN-2000; 2000US-00598042.	Qy	1272	GAGCTGTGAACTAAACAGTGCATCTGCGCCAGTTATAGGAAATTTTCAATCCGTCTA	1331
19-JUL-2000; 2000US-00620312.	Dd	943	GAGCTGTGAACTAAACAGTGCATCTGCGCCAGTTATAGGAAATTTTCAATCCGTCTA	884
03-AUG-2000; 2000US-00653450.	Qy	1332	GTCCCTCACAATGATGTCTCGCGTGGAAAAACAGGTGACACGACATCTTCAAGATGTG	1391
14-SEP-2000; 2000US-00662191.	Dd	883	GTCCCTCACAATGATGTCTCGCGTGGAAAAACAGGTGACACGACATCTTCAAGATGTG	824
19-OCT-2000; 2000US-00693036.	Qy	1392	TTTCTCAAAGAAATAGTTTCAAAGATGGTTTTCATGACTCTAGGACTACACCGG	1451
29-NOV-2000; 2000US-00727344.	Dd	823	TTTCTCAAAGAAATAGTTTCAAAGATGGTTTTCATGACTCTAGGACTACACCGG	764
(HYSE-) HYSEQ INC.	Qy	1452	TGGATTGCAAAATATTTGATGACACCCAGTATCTCGCAGCAAAAGAGCGATCAGACAGTG	1511
Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;	Dd	763	TGGATTGCAAAATATTTGATGACACCCAGTATCTCGCAGCAAAAGAGCGATCAGACAGTG	704
Wang JT, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J, Zhao QH;	Qy	1512	TTTGGAAACAGAACACAGATATGATCCGGATGGATCCACATTCCAATTCGCAAAATGTTC	1571
Zhou P, Goodrich R, Drmanac RT;	Dd	703	TTTGGAAACAGAACACAGATATGATCCGGATGGATCCACATTCCAATTCGCAAAATGTTC	644
WPI; 2001-442253/47.	Qy	1572	CAGGAGATGCTCCACAGAGCGTGTGTCTTAATTCGCTGGGAGCTGTGATGATGGAGAA	1631
P-PSDB; AAM41935.	Dd	643	CAGGAGATGCTCCACAGAGCGTGTGTCTTAATTCGCTGGGAGCTGTGATGATGGAGAA	584
Novel nucleic acids and polypeptides, useful for treating disorders such	Qy	1632	CATTTCGCAAGATGAGAAATCAACAGGTGGAACTACATAGAGGGAAACCAATTTATTGCT	1691
as central nervous system injuries.	Dd	583	CATTTCGCAAGATGAGAAATCAACAGGTGGAACTACATAGAGGGAAACCAATTTATTGCT	524
Claim 1; SEQ ID NO 5080; 10078pp; English.	Qy	1692	GCCTTTTCTTAGAGATGCCAGCTCCATTAATCAAGAACCTTCTAGTCTGATCTGA	1751
The invention relates to human nucleic acids (AAI57798-AAI61369) and the	Dd	523	GCCTTTTCTTAGAGATGCCAGCTCCATTAATCAAGAACCTTCTAGTCTGATCTGA	464
encoded polypeptides (AAM38642-AAM42213) with nootropic,	Qy	1752	TCCACTGACAGTTCACCT-CCCCACATCCCTAGACAGGATGGAATGTAATAT-CCA	1809
immunosuppressant and cytostatic activity. The polynucleotides are useful	Dd	463	TCCACTGACAGTTCACCT-CCCCACATCCCTAGACAGGATGGAATGTAATAT-CCA	404
in gene therapy. A composition containing a polypeptide or polynucleotide				
of the invention may be used to treat diseases of the peripheral nervous				
system, such as peripheral nervous injuries, peripheral neuropathy and				
localised neuropathies and central nervous system diseases, such as				
Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic				
lateral sclerosis, and Shy-Drager Syndrome. Other uses include the				
utilisation of the activities such as: Immune system suppression,				
Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic				
and thrombolytic activity, cancer diagnosis and therapy, drug screening,				
assays for receptor activity, arthritis and inflammation, leukaemias and				
C.N.S disorders. Note: The sequence data for this patent did not form				
part of the printed specification				
Sequence 1569 BP; 411 A; 343 C; 356 G; 459 T; 0 U; 0 Other;				
Query Match 64.9%; Score 1454.8; DB 4; Length 1569;				
Best Local Similarity 97.7%; Pred. No. 5.2e-309;				
Matches 1507; Conservative 0; Mismatches 33; Indels 3; Gaps 3;				
Qy 672 CTTTATGAGGAGGCGGACCGACCAACAGGCGCTCTTGGCTTGGATCAATGCTGTG				



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Db 769 GTCCCTCAGATGATGTCGCGGTGGAAACAGGTGACACGACATCTTGAAGATGTG 828
Qy 1392 TTCTCCAAAGAAATAGTTCCAAAGATGGTGTGTTTCCATGACTTAGGACTACACCG 1451
Db 829 TTCTCCAAAGAAATAGTTCCAAAGATGGTGTGTTTCCATGACTTAGGACTACACCG 888
Qy 1452 TGGATTGCAAAATTTGATGACACCCAGTATCTCGGAGCAAAAAGAGCGGATCAGAACAGTG 1511
Db 889 TGGATTGCAAAATTTGATGACACCCAGTATCTCGGAGCAAAAAGAGCGGATCAGAACAGTG 948
Qy 1512 TTGGAAACAGAACAGATATGATCCGGGATGGATCCACCATTCCTCAATTCGCAAAATGTTTC 1571
Db 949 TTGGAAACAGAACAGATATGATCCGGGATGGATCCACCATTCCTCAATTCGCAAAATGTTTC 1008
Qy 1572 CAGGAGATCGTCCACAAAGACGCTGCTGCTAAATTCGCTCGGAGCTGTTGATGATGGAGAA 1631
Db 1009 CAGGAGATCGTCCACAAAGACGCTGCTGCTAAATTCGCTCGGAGCTGTTGATGATGGAGAA 1068
Qy 1632 CATTCCAGAAATCAGAAATCAACAGGTGGAACTACATAGAGGGAACCAATTTATTTGCT 1691
Db 1069 CATTCCAGAAATCAGAAATCAACAGGTGGAACTACATAGAGGGAACCAATTTATTTGCT 1128
Qy 1692 GCCTTTTCTTAGAGATGGCCAGCTCCATTAATCAAGAACTTTCTAGTCTGATCTGA 1751
Db 1129 GCCTTTTCTTAGAGATGGCCAGCTCCATTAATCAAGAACTTTCTAGTCTGATCTGA 1188
Qy 1752 TCCACTGACAGATTCACCTCCCCACATCCCTAGACAGGATGGAATGAAATATCCAGA 1811
Db 1189 TCCACTGACAGATTCACCTCCCCACATCCCTAGACAGGATGGAATGAAATATCCAGA 1248
Qy 1812 GAATTTGGGTCTAGTAGTAGATTTTCCCTTCCATTTAAATGTCTTGGGATATCTGA 1871
Db 1249 GAATTTGGGTCTAGTAGTAGATTTTCCCTTCCATTTAAATGTCTTGGGATATCTGA 1308
Qy 1872 TCAGTAATAAAATATTTCAAAGGCACAGA 1900
Db 1309 TCAGTAATAAAATATTTCAAAGGCACAAA 1337
```

## RESULT 34

ADP90810/c

ID ADP90810 standard; DNA; 742 BP.

XX AC ADP90810;

XX DT 26-FEB-2004 (first entry)

XX DE Human hepatic-fibrosis disease marker SEQ ID 272.

XX DE Hepatic fibrosis; marker; chronic hepatitis; liver cirrhosis;

XX DE Hepatic carcinoma; human; ds.

XX KW Homo sapiens.

XX OS JP2003259877-A.

XX PN 16-SEP-2003.

XX PD 11-MAR-2002; 2002JP-00065013.

XX PF 11-MAR-2002; 2002JP-00065013.

XX PR (SUMU ) SUMITOMO SEIYAKU KK.

XX PA WPI; 2003-821598/77.

XX DR

XX PT Hepatic fibrosis disease markers comprising polynucleotides or

XX PT antibodies, useful for improved diagnosis, screening and developing drugs

XX PT to treat hepatitis, to control cirrhosis and carcinoma.

XX PS Claim 1; SEQ ID NO 272; 313bp; Japanese.

XX PS

XX XX

CC The present invention relates to hepatic-fibrosis disease markers  
CC (ADP90810-ADP90811) and related proteins (ADP90812-ADP90817). The  
CC sequences are useful for detecting and treating hepatic fibrosis caused  
CC by alcohol consumption, virus infection, etc., and the associated chronic  
CC hepatitis, etc. leading to liver cirrhosis and hepatic carcinoma. The  
CC markers allow the cause of hepatic fibrosis to be clarified (diagnostic  
CC precision), so more suitable treatments can be developed and given.

SQ Sequence 742 BP; 192 A; 165 C; 160 G; 224 T; 0 U; 1 Other;

Query Match 32.4%; Score 726.6; DB 10; Length 742;  
Best Local Similarity 98.7%; Pred. No. 2.4e-149;  
Matches 732; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

```
Qy 1155 GAATACCGGAATAGACGCGCGGTGAGAAATTTCTGTCGATACCTAAGAGGAGATCTTA 1214
Db 742 GAATACCGGAATAGACGCGCGGTGAGAAATTTCTGTCGATACCTAAGAGGAGATCTTA 683
Qy 1215 ATGCACCTCTGGAGGTACCCATCTCTTTCTATTCTATGCGGATCGAGGCGGTTTGATGAG 1274
Db 682 ATGCACCTCTGGAGGTACCCATCTCTTTCTATTCTATGCGGATCGAGGCGGTTTGATGAG 623
Qy 1275 CTTGGAATTAACAGTATACCTGCGCCGAGTTATAGGAAAAATTTTCAATCCGCTAGTTC 1334
Db 622 CTTGGAATTAACAGTATACCTGCGCCGAGTTATAGGAAAAATTTTCAATCCGCTAGTTC 563
Qy 1335 CTTCACTCAATGTGCTCGCGGTGGAAACAGGTGACACGACATCTTGAAGATGTGTTTC 1394
Db 562 CTTCACTCAATGTGCTCGCGGTGGAAACAGGTGACACGACATCTTGAAGATGTGTTTC 503
Qy 1395 TCCAAAGAAATAGTTTCCAAAGATGGTGTGTTTCCATGACTCTAGGACTACACCGGTGG 1454
Db 502 TCCAAAGAAATAGTTTCCAAAGATGGTGTGTTTCCATGACTCTAGGACTACACCGGTGG 443
Qy 1455 ATTGCAAAATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGGATCAGAACAGTGT 1514
Db 442 ATTGCAAAATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGGATCAGAACAGTGT 383
Qy 1515 GGAACAGAACCCAGATATGATCCGGGATGGATCCACCATTCCTCAATTCGCAAAATGTTCCAG 1574
Db 382 GGAACAGAACCCAGATATGATCCGGGATGGATCCACCATTCCTCAATTCGCAAAATGTTCCAG 323
Qy 1575 GAGATCGTCCCAAGAGCGTGTGCTTAATTCGCTCGGAGCTGTTGATGATGAGAACAT 1634
Db 322 GAGATCGTCCCAAGAGCGTGTGCTTAATTCGCTCGGAGCTGTTGATGATGAGAACAT 263
Qy 1635 TCGCAAGATGAGAAATCAACAGGTGGAACCTACATAGAGGGAACCAAAATTTTGTGCTGC 1694
Db 262 TCGCAAGATGAGAAATCAACAGGTGGAACCTACATAGAGGGAACCAAAATTTTGTGCTGC 203
Qy 1695 TTTTCTTATAGATGGCCAGCTCCATTAATCAAGAAACCTTCTAGTCTGATCTGATCC 1754
Db 202 TTTTCTTATAGATGGCCAGCTCCATTAATCAAGAAACCTTCTAGTCTGATCTGATCC 143
Qy 1755 ACTGACAGATTCACCTCCCCACATCCCTAGACAGGATGGAATGAAATATCCAGAGAA 1814
Db 142 ACTGACAGATTCACCTCCCCACATCCCTAGACAGGATGGAATGAAATATCCAGAGAA 83
Qy 1815 TTTGGGTCTAGTATAGTATATTTCCCTTCCATTTAAATGTCTTGGGATATCTGGATCA 1874
Db 82 TTTGGGTCTAGTATAGTATATTTCCCTTCCATTTAAATGTCTTGGGATATCTGGATCA 23
Qy 1875 GTAATAAAATATTTCAAAGCA 1896
Db 22 GTAATAAAATATTTCAAAGCA 1
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## RESULT 35

AAH98942

ID AAH98942 standard; cDNA; 639 BP.

XX AC

XX AAH98942;

XX XX



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12-OCT-2001 (first entry)
Human EST-derived coding sequence SEQ ID NO: 799.
Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;
tomato; monkey; dog; sea urchin; expressed sequence tag; EST;
diagnostics; forensic test; gene mapping; genetic disorder; biodiversity;
gene therapy; nutrition; ss.
Homo sapiens.
WO200154477-A2.
02-AUG-2001.
25-JAN-2001; 2001WO-US002687.
25-JAN-2000; 2000US-00491404.
17-JUL-2000; 2000US-00617746.
03-AUG-2000; 2000US-00631451.
15-SEP-2000; 2000US-00663870.
(HYSE-) HYSEQ INC.
Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;
Cao Y, Drmanac RA, Zhang J, Werhman T;
WPI; 2001-476164/51.
P-PSDB; AAM24283.
Isolated polypeptide for treatment of diseases, diagnostics, raising
antibodies and research use.
Claim 1; Page 676; 1275pp; English.
The present invention provides the protein and coding sequences of novel
proteins from a variety of organisms, including human, dog, cat, horse,
cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea
urchin and tomato. These were derived from expressed sequence tags (ESTs)
from the organism of interest. They can be used in diagnostics,
forensics, gene mapping, identification of mutations, to assess
biodiversity and for nutritional purposes. The present sequence is a cDNA
of the invention
SQ Sequence 639 BP; 119 A; 181 C; 186 G; 153 T; 0 U; 0 Other;

Query Match 24.9%; Score 557.2; DB 4; Length 639;
Best Local Similarity 99.0%; Pred. No. 3.3e-112;
Matches 572; Conservative 0; Mismatches 3; Indels 3; Gaps 1;

QY 1 GAATGAATACCTCGAAGCCGCTTTGTTCTCCAGATGTGAATAGCTCCACTATACACGCC 60
DB 61 GAATGAATACCTCGAAGCCGCTTTGTTCTCCAAATGGGAATAGCTCCACTATACACGCC 120
QY 61 TCGTCTTCTTCCGGGGGCAACACGTGGGTGAGGCGACAGAGATATTTAATGTCAACCT 120
DB 121 TCGTCTTCTTCCGGGGGCAACACGTGGGTGAGGCGACAGAGATATTTAATGTCAACCT 180
QY 121 CTGGGGGCTTTCATGGGACTCCCTCTCTGCCACATTTTGTGAGGTTGGGAAAGTTGTAGA 180
DB 181 CTGGGGGCTTTCATGGGACTCCCTCTCTGCCACATTTTGTGAGGTTGGGAAAGTTGTAGA 240
QY 181 GGCTTCAGACTCCAGGCTTAATGATCCCAACTCGGGGAAATGGCTGCTCCCTGCTGG 240
DB 241 GGCTTCAGACTCCAGGCTTAATGATCCCAACTCGGGGAAATGGCTGCTCCCTGCTGG 300
QY 241 CTG---TGCTGCTGCTGCTGAGGCGGCGCATGTTCTCTCCACTCCCTCCCGCCCGG 297
DB 301 CTGTCGCTGCTGCTGCTGCTGAGCGGCGCATGTTCTCTCCACTCCCTCCCGCCCGG 360
QY 298 CGCTGTTAGAGAAAGTCTTCAGTACATGACCTCCATCAGGATGAATTTGTGACAGCG 357
DB 361 CGCTGTTAGAGAAAGTCTTCAGTACATGACCTCCATCAGGATGAATTTGTGACAGCG 420

```

12-OCT-2001 (first entry)

Human EST-derived coding sequence SEQ ID NO: 799.

Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse; tomato; monkey; dog; sea urchin; expressed sequence tag; EST; diagnostics; forensic test; gene mapping; genetic disorder; biodiversity; gene therapy; nutrition; ss.

Homo sapiens.

WO200154477-A2.

02-AUG-2001.

25-JAN-2001; 2001WO-US002687.

25-JAN-2000; 2000US-00491404.

17-JUL-2000; 2000US-00617746.

03-AUG-2000; 2000US-00631451.

15-SEP-2000; 2000US-00663870.

(HYSE-) HYSEQ INC.

Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V; Cao Y, Drmanac RA, Zhang J, Werhman T;

WPI; 2001-476164/51.

P-PSDB; AAM24283.

Isolated polypeptide for treatment of diseases, diagnostics, raising antibodies and research use.

Claim 1; Page 676; 1275pp; English.

The present invention provides the protein and coding sequences of novel proteins from a variety of organisms, including human, dog, cat, horse, cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea urchin and tomato. These were derived from expressed sequence tags (ESTs) from the organism of interest. They can be used in diagnostics, forensics, gene mapping, identification of mutations, to assess biodiversity and for nutritional purposes. The present sequence is a cDNA of the invention

SQ Sequence 639 BP; 119 A; 181 C; 186 G; 153 T; 0 U; 0 Other;

Query Match 24.9%; Score 557.2; DB 4; Length 639; Best Local Similarity 99.0%; Pred. No. 3.3e-112; Matches 572; Conservative 0; Mismatches 3; Indels 3; Gaps 1;

QY 1 GAATGAATACCTCGAAGCCGCTTTGTTCTCCAGATGTGAATAGCTCCACTATACACGCC 60

DB 61 GAATGAATACCTCGAAGCCGCTTTGTTCTCCAAATGGGAATAGCTCCACTATACACGCC 120

QY 61 TCGTCTTCTTCCGGGGGCAACACGTGGGTGAGGCGACAGAGATATTTAATGTCAACCT 120

DB 121 TCGTCTTCTTCCGGGGGCAACACGTGGGTGAGGCGACAGAGATATTTAATGTCAACCT 180

QY 121 CTGGGGGCTTTCATGGGACTCCCTCTCTGCCACATTTTGTGAGGTTGGGAAAGTTGTAGA 180

DB 181 CTGGGGGCTTTCATGGGACTCCCTCTCTGCCACATTTTGTGAGGTTGGGAAAGTTGTAGA 240

QY 181 GGCTTCAGACTCCAGGCTTAATGATCCCAACTCGGGGAAATGGCTGCTCCCTGCTGG 240

DB 241 GGCTTCAGACTCCAGGCTTAATGATCCCAACTCGGGGAAATGGCTGCTCCCTGCTGG 300

QY 241 CTG---TGCTGCTGCTGCTGAGGCGGCGCATGTTCTCTCCACTCCCTCCCGCCCGG 297

DB 301 CTGTCGCTGCTGCTGCTGCTGAGCGGCGCATGTTCTCTCCACTCCCTCCCGCCCGG 360

QY 298 CGCTGTTAGAGAAAGTCTTCAGTACATGACCTCCATCAGGATGAATTTGTGACAGCG 357

DB 361 CGCTGTTAGAGAAAGTCTTCAGTACATGACCTCCATCAGGATGAATTTGTGACAGCG 420

QY 358 TGAAGGAGTGGTGGCCATCGAGAGCGACTCTGTCCAGCCTGTGCTCGCTTTCAGACAAG 417

DB 421 TGAAGGAGTGGTGGCCATCGAGAGCGACTCTGTCCAGCCTGTGCTCGCTTTCAGACAAG 480

QY 418 AGCTCTTTCAGAATGATGGCGTGGCTGCGGACACGCTGCAGCGCTGGGGGCCCGTGTGG 477

DB 481 AGCTCTTTCAGAATGATGGCGTGGCTGCGGACACGCTGCAGCGCTGGGGGCCCGTGTGG 540

QY 478 CCTCGGTGGACATGGGTCTCTCAGCAGCTGCCGATGGTTCAGAGTCTTCCAATACCTCCCG 537

DB 541 CCTCGGTGGACATGGGTCTCTCAGCAGCTGCCGATGGTTCAGAGTCTTCCAATACCTCCCG 600

QY 538 TCATCTCTGGCCGAACCTGGGGAGCGATCCCAACGAAAGGC 575

DB 601 TCATCTCTGGCCGAACCTGGGGAGCGATCCCAACGAAAGGC 638

RESULT 36

AAH99853

ID AAH99853 standard; cDNA; 639 BP.

AC AAH99853;

XX

XX 16-OCT-2001 (first entry)

DE Human protein encoding cDNA sequence SEQ ID NO:688.

XX Human; cancer; ulcer; HIV infection; human immunodeficiency virus; antiinflammatory; antirheumatic; antiarthritic; immunosuppressive; antibacterial; endocrine; cardiant; cardiant; central nervous system; virucide; anti-HIV; fungicide; antimutagen; cardiovascular; antianaemic; anaemia; antiaggregant; haemostatic; vulnery; antiulcer; osteopathic; eczema; dermatological; antiallergic; antiasthmatic; antidiabetic; cytostatic; neuroprotective; antidepressant; nootropic; antiparkinsonian; infection; immunostimulant; gene therapy; antisense therapy; vaccine; inflammation; antianaphylactic; rheumatoid arthritis; septic shock; pancreatitis; cardiac dysfunction; neuropathology; cardiac anaphylaxis; autoimmunity; thrombocytopaenia; osteoporosis; severe combined immunodeficiency; allergic rhinitis; diabetes; multiple sclerosis; depression; Alzheimer's disease; Parkinson's disease; neurodegenerative disorder; neurological disorder; ss.

OS Homo sapiens.

XX

XX WO200153455-A2.

XX

XX 26-JUL-2001.

XX

XX 22-DEC-2000; 2000WO-US035017.

XX

PR 23-DEC-1999; 99US-00471275.

PR 21-JAN-2000; 2000US-00488725.

PR 25-APR-2000; 2000US-00552317.

XX

PA (HYSE-) HYSEQ INC.

XX

PI Tang YT, Liu C, Drmanac RT;

XX

XX WPI; 2001-457603/49.

DR P-PSDB; AAM25912.

XX

DR Isolated human polynucleotides encoding polypeptides, useful for the treatment and diagnosis of e.g. cancer, ulcers and HIV infection.

PT

XX Claim 1; Page 683; 1217pp; English.

PS

XX AAH99166 to AAH99904 encode the human proteins given in AAM25225 to AAM25963. The proteins can have activities based on the tissues and cells they are expressed in, such as: antiinflammatory; antirheumatic; antiarthritic; immunosuppressive; antibacterial; endocrine; cardiant; central nervous system; virucide; anti-HIV; fungicide; antimutagen;

CC

cardiovascular; antianemic; antiaggregant; haemostatic; vulnery;  
antiulcer; osteopathic; dermatological; antiallergic; antiasthmatic;  
antidiabetic; cytostatic; neuroprotective; antidepressant; nootropic;  
antiparkinsonian; and immunostimulant. The proteins and polynucleotides  
encoding them can be used in gene therapy, antisense therapy and vaccine  
production. The proteins and polynucleotides are useful for screening for  
agonists or antagonists of a protein and for the treatment and diagnosis  
of disorders associated with the activity of a protein e.g. inflammation,  
rheumatoid arthritis, septic shock, pancreatitis, cardiac dysfunction,  
neuropathology, cardiac anaphylaxis, viral, bacterial, HIV and fungal  
infections, autoimmunity, genetic diseases, haematopoietic disorders,  
anaemia, platelet disorders, thrombocytopaenia, wounds, burns, ulcers,  
osteoporosis, severe combined immunodeficiency, eczema, allergic  
rhinitis, asthma, diabetes, cancer, multiple sclerosis, depression,  
Alzheimer's disease, Parkinson's disease, neurodegenerative and  
neurological disorders

XX  
SQ Sequence 639 BP; 119 A; 181 C; 186 G; 153 T; 0 U; 0 Other;  
Query Match 24.9%; Score 557.2; DB 4; Length 639;  
Best Local Similarity 99.0%; Pred. No. 3.3e-112;  
Matches 572; Conservative 0; Mismatches 3; Indels 3; Gaps 1;

Qy 1 GAATGAATACCTCGAAGCGCTTTGTTCTCCAGATGTGAATAGCTCCACTATACCAGCC 60  
Db 61 GAATGAATACCTCGAAGCGCTTTGTTCTCCAAATGGGAATAGCTCCACTATACCAGCC 120  
Qy 61 TCGTCTTCCTTCGGGGGCAACGTTGGTTCAGGTCAGGACAGAGATATTAATGTCAACCT 120  
Db 121 TCGTCTTCCTTCGGGGGCAACGTTGGTTCAGGTCAGGACAGAGATATTAATGTCAACCT 180  
Qy 121 CTGGGGCTTTTCATGGGACTCCCTCTGCCACATTTTGGAGGTGGGAAAGTTGTCTAGA 180  
Db 181 CTGGGGCTTTTCATGGGACTCCCTCTGCCACATTTTGGAGGTGGGAAAGTTGTCTAGA 240  
Qy 181 GGCTTCAGAACTCAGCCTAATGATGCCAAATCGGGAGATGGCTGCGTCCCTCTGG 240  
Db 241 GGCTTCAGAACTCAGCCTAATGATGCCAAATCGGGAGATGGCTGCGTCCCTCTGG 300  
Qy 241 CTG---TGCTGCTGCTGCTGCGGCGGGCATGTTCTCTCACCTCCCGCCCCCGG 297  
Db 301 CTGTCGCTGCTGCTGCTGCGGCGGGCATGTTCTCTCACCTCCCGCCCCCGG 360  
Qy 298 CGCTGTTAGAGAAAGTCTTCCAGTACATTCACCTCCATCAGGATGAATTTGTGCAGACGC 357  
Db 361 CGCTGTTAGAGAAAGTCTTCCAGTACATTCACCTCCATCAGGATGAATTTGTGCAGACGC 420  
Qy 358 TGAAGAGTGGTGGCATCGAGAGCATCTCTGTCCAGCCTGTGCTCGCTTCAGACAAG 417  
Db 421 TGAAGAGTGGTGGCATCGAGAGCATCTCTGTCCAGCCTGTGCTCGCTTCAGACAAG 480  
Qy 418 AGCTCTTCAGAAATGATGGCGTGGCTGCGGACACGCTGCAGCGCCTGGGGGCGCGTGG 477  
Db 481 AGCTCTTCAGAAATGATGGCGTGGCTGCGGACACGCTGCAGCGCCTGGGGGCGCGTGG 540  
Qy 478 CTTCCGTGGACATGGGTCTCTCAGCAGTGGCCGATGGTTCAGAGTCTTCCAATACCTCCCG 537  
Db 541 CTTCCGTGGACATGGGTCTCTCAGCAGTGGCCGATGGTTCAGAGTCTTCCAATACCTCCCG 600  
Qy 538 TCATCTCGCCGAACCTGGGAGCGGATCCCAAGAAAGGC 575  
Db 601 TCATCTCGCCGAACCTGGGAGCGGATCCCAAGAAAGGC 638

RESULT 37  
ADQ67289

ID ADQ67289 standard; cDNA; 3755 BP.

XX

AC ADQ67289;

XX

DT 07-OCT-2004 (first entry)

XX Novel human cDNA sequence #2262.

ss; gene; osteopathic; neuroprotective; nootropic; antiparkinsonian;  
cytostatic; gene therapy; diagnostic marker; morbid state; osteoporosis;  
neurological disease; Alzheimer's disease; Parkinson's disease; dementia;  
cancer.  
OS Homo sapiens.  
XX  
PN EP1440981-A2.  
XX  
PD 28-JUL-2004.  
XX  
PD 21-JAN-2004; 2004EP-00001196.  
XX  
PF 21-JAN-2003; 2003JP-00102206.  
XX  
PR 09-MAY-2003; 2003JP-00131392.  
XX  
XX (REAS-) RES ASSOC BIOTECHNOLOGY.  
XX  
XX Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S;  
PI Yamamoto J, Isono Y, Nagai K, Irie R;  
PI  
XX  
DR WPI; 2004-535376/52.  
DR P-PSDB; ADQ67596.  
XX  
PT Novel 2495 cDNA, useful for treating osteoporosis, neurological diseases,  
PT Alzheimer's diseases, Parkinson's diseases, dementia and various cancers.  
XX  
PS Claim 1; SEQ ID NO 4450; 2449pp; English.  
XX  
CC The invention relates to 2495 novel polynucleotides (I) and their encoded  
CC polypeptides, sequences hybridizing to these nucleotides, sequences  
CC encoding partial polypeptides and sequences having 70% or 90% identity to  
CC the nucleotide and protein sequences. The nucleotides and polypeptides  
CC are useful as diagnostic markers or therapeutic target for the diseases  
CC or morbid states. They are also useful for treating osteoporosis,  
CC neurological diseases, Alzheimer's diseases, Parkinson's diseases,  
CC dementia and various cancers. This sequence corresponds to a nucleotide  
CC sequence of the invention.

Query Match 23.1%; Score 518; DB 12; Length 3755;  
Best Local Similarity 100.0%; Pred. No. 2.3e-103;  
Matches 518; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1656 AGGTGGAACATACATAGAGGGAACCAAAATATTGCTGCTCTTTCTTAGAGATGCCAG 1715  
Db 3238 AGGTGGAACATACATAGAGGGAACCAAAATATTGCTGCTCTTTCTTAGAGATGCCAG 3297  
Qy 1716 CTCCATTATACACAGAACCTTCTAGTCTGATCCATCCAGATTCACCTCCGCC 1775  
Db 3298 CTCCATTATACACAGAACCTTCTAGTCTGATCTGATCCATCCAGATTCACCTCCGCC 3357  
Qy 1776 ACATCCCTAGACAGGATGGAATGTAAATATCCAGAGAAATTTGGTCTAGTATAGTACAT 1835  
Db 3358 ACATCCCTAGACAGGATGGAATGTAAATATCCAGAGAAATTTGGTCTAGTATAGTACAT 3417  
Qy 1836 TTTCCCTTCCATTTAAATGCTTTGGGATATCTGGATCAGTAATAATAATTTCAAAGGC 1895  
Db 3418 TTTCCCTTCCATTTAAATGCTTTGGGATATCTGGATCAGTAATAATAATTTCAAAGGC 3477  
Qy 1896 ACAGATGTTGGAATGTTTAAGTCCGCCACTGCACACCTTCTCAGTATAGTCTCT 1955  
Db 3478 ACAGATGTTGGAATGTTTAAGTCCGCCACTGCACACCTTCTCAGTATAGTCTCT 3537  
Qy 1956 TGCAGCAACTTGAATTTCCCAAGTCTGTGCAATAGCCCCCAGGATTTGGATTCCTTCCAAAC 2015  
Db 3538 TGCAGCAACTTGAATTTCCCAAGTCTGTGCAATAGCCCCCAGGATTTGGATTCCTTCCAAAC 3597  
Qy 2016 CTTTGTAGCATATCTCCAAACCTTGCATTTGATTTGGCATATATCCTCCGGTTTGTCTTA 2075  
Db 3598 CTTTGTAGCATATCTCCAAACCTTGCATTTGATTTGGCATATATCCTCCGGTTTGTCTTA 3657



PR	12-MAR-1999;	99US-0124270P.	
XX	(HUMA-) HUMAN GENOME SCI INC.		
PA	Rosen CA, Ruben SM;		
XX	WPI; 2000-587533/55.		
PI	P-PSDB; AAB43952.		
XX	Novel isolated nucleic acids comprising sequences encoding peptides		
PT	useful for treating or diagnosing e.g. cancer.		
XX	Claim 1; Page 1081-1082; 2352pp; English.		
XX	AAC77607 to AAC78448 encode the human cancer associated proteins given in		
CC	AAB43398 to AAB44239. The proteins can have activities based on the		
CC	tissues and cells the genes are expressed in. Example of activities		
CC	include: cytostatic; proliferative; vulnery; immunomodulator;		
CC	antidiabetic; antiasthmatic; antirheumatic; antiarthritic;		
CC	antiinflammatory; antithyroid; antiallergic; antibacterial; antiviral;		
CC	dermatological; neuroprotective; cardiant; thrombolytic; coagulant;		
CC	nootropic; vasotropic; antipsoriatic and antiangiogenic. The		
CC	polynucleotides and polypeptides can be used for preventing, treating or		
CC	ameliorating medical conditions and diagnosing pathological conditions.		
CC	Polynucleotides, polypeptides, antibodies, agonists and antagonists from		
CC	the present invention may be used to treat immune disorders by activating		
CC	or inhibiting the proliferation, differentiation or mobilisation of		
CC	immune cells, to treat disorders of haematopoietic cells, autoimmune		
CC	disorders, allergic reactions, graft versus host disease and organ		
CC	rejection, modulate haemostatic or thrombolytic activity, modulate		
CC	inflammation, cancers, cardiovascular disorders, neurological disease and		
CC	bacterial or viral infections. The peptides, nucleotides, antibodies, and		
CC	agonists and antagonists may be also be used in drug screens. AAC78449 to		
CC	AAC78457 and AAB44240 represent sequences used in the exemplification of		
CC	the present invention		
XX			
SQ	Sequence 1997 BP; 456 A; 507 C; 597 G; 426 T; 0 U; 11 Other;		
Query Match	21.0%; Score 469.8; DB 3; Length 1997;		
Best Local Similarity	58.5%; Pred. No. 7.2e-93;		
Matches	835; Conservative 2; Mismatches 584; Indels 6; Gaps 1;		
QY	313 TCCTCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGMAAGGAGTGGGTG 372		
DB	173 TGTTTAAGTACATAGATGAATAATCAGATCGCTACATTAAGAAATCGGMAATGGGTG 232		
QY	373 CCATCAGAGCGACTCTGTCCAGCCTGTGCTCGCTTCAGACAAGAGCTCTTCAGAAATGA 432		
DB	233 CTATCCAGAGTGTGTCTGCGTGGCCGAG-----AAGAGAGCGGAAATCAGGAGGATGA 286		
QY	433 TGGCCGTGGGTGGGACACGCTCAGCGCTGGGGCCCGTGTGGCCTCGGTGGATGG 492		
DB	287 TGAAGTGTGCTGCAGATGTTAAGCAGTGTGGGGGCTCTGTGGAATCGTGGATATCG 346		
QY	493 GTCCCTCAGCAGCTGCCGAGTGTGCAGATCTTCCAATACCTCCGCTCATCTTGGCCGAAC 552		
DB	347 GAAAAAAGAGTCCCTGTATGGCTCGAGATCCGCTCCCTCTATTCTGCTCGGAGGC 406		
QY	553 TGGGGAGCGATCCACAGAAAGGACCGTGTGCTTTCTACGGCCACTTTGGACGTGACGCTG 612		
DB	407 TGGGCTCCGACCCACAGAGAACCGTGTGCATTTACGGGCACCTGGATGTGACGCTG 466		
QY	613 CTGACCGGGCGATGGTGGCTCAGGACCCCTATGTGTGACGGAGGTAGACGGGAAC 672		
DB	467 CAGCCCTGGAGGACGGCTGGGACGGAGCCCTTCACCTTGTGGAGCGAGACGGCAAGC 526		
QY	673 TTTATGGACGAGGAGCGACCGACAAACAAAGGCCCTCTCTTGGCTTGGATCAATGTGTGA 732		
DB	527 TGVATGGAGAGGTTTCAGATGATGATAAGGCCCGGTGGCCGCTGGATAAAGCCCTGG 586		
QY	733 GGCCTTTCAGAGCCCTGGAGCAAGATCTTCCTGTGTAATATCAAAATTCATCATTTGAGGGA 792		
DB	587 AAGCGTATCAGAAACAGGCCAGGAGATTCTGTCAACGCTCCGATTTCTGCTCGAAGGCA 646		

RESULT 40  
AAS03019  
ID AAS03019 standard; cDNA; 1879 BP.  
XX  
AC AAS03019;  
XX  
DT 29-AUG-2001 (first entry)

QY	793 TGAAGAGAGCTGGCTCTGTGGCCCTGGAGGAACCTTGTGAAAAAGAAAGGACCGATTCT 852
DB	647 TGGAGGAGTCAAGCTCTGAGGGCTAGACGAGCTGATTTTGGCCGGAAGACACATTCT 706
QY	853 TCTCTGGTGGACTACATTGTAATTTTCAAGATAAACCCTGTGGATCAGCCAAAGAACCCAG 912
DB	707 TTAAGATGTGGACTATGTCGCAITTTCTGACAAATTAAGTGGTGGGAAAGAAAGACCCCT 766
QY	913 CAATCACTTATGGAACCCGGGGGAACAGACTACTTTCATGTGGAGGTGAATTCAGAGACC 972
DB	767 GCATCACCTACGGCCTCAGGGCAITTTGCTACTTTTTCATCGAGGTGGAGTGCAGCAACA 826
QY	973 AGAATTTTCACTCAGGAACCTTTTGGTGGCATCCTTCATGAACCAATGGCTGATCTGGTTG 1032
DB	827 AAGACCTCATTTCTGGGGTGTACGGGGGCTCGGTGCATGAGGCATGACTGATCTCATTT 886
QY	1033 CTCTTCTCGTAGCCTGGTAGACTCGTCTGCTCATATCCTGCTCCCTGGAATCTATGATG 1092
DB	887 TGTGTATGGCTCTTTTGGTGGACAAGAGGGGGAACATCTGATCCCGGCATTAACGAGG 946
QY	1093 AAGTGTCTTCTTACAGAAAGAGGAATAAATACATACAAAGCCATCCATCTAGACCTAG 1152
DB	947 CCGTGGCCCGCTCAGGAAGAGGAGCAACAAGCTGTACGACATCGACTTTGACATAG 1006
QY	1153 AAGATACCGGAATAGACCGCGGTGAGAAATTTCTGTTCATTAAGAGGAGATTC 1212
DB	1007 AGGAGTTTCCCAAGGATGTGGGGGCGCAGATCCTCTGCACAGCCCAAGAAAGACATCC 1066
QY	1213 TAATGCACCTCTGGAGGTACCCATCTCTTTCTATTATCATGGGATCGAGGCGGTTTGATG 1272
DB	1067 TCATGCACCGATGGCGGTACCCGCTCTCTGCTCCCTCCATGGCATCGAAGGCGCTTCTGTG 1126
QY	1273 AGCCTGGAACTAAAACAGTCATACCTGGCCGAGTTATAGGAAAAATTTTCAATCCGFTAG 1332
DB	1127 GGTCTGGGGCCAAAGCCGATTTCCAGGAAGTGGTTGGCAAGTCTCCATCAGGCTCG 1186
QY	1333 TCCTTCATGATGTGTCTGCGTGGAAAAACAGGTGACACGATCTTTGAAGATGTCT 1392
DB	1187 TCCCGAACATGACTCCTGAAAGTCGTGGCGAGCAGGTCAACAGCTACCTAACTAAGAAGT 1246
QY	1393 TCTCCAAAAGAAATAGTTCACAAAGATGGTTTGTTCATGACTCTTAGGACTACACCCGT 1452
DB	1247 TTGCTGNACTACGACGCCCAATGAGTTCAAGGTGTACATGGGCCACGCTGGGAGCCCT 1306
QY	1453 GGATTCGAAATATGATGACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTGT 1512
DB	1307 GGGTCTCCGACTTCAGTCCACCTCATTTACCTGGCTGGGAGAGAGCCATGAAGACAGTTT 1366
QY	1513 TTGGAACAGAACCAAGATGATCCGGATGGATCCACCATTCCAATTCGCAAAATGTTCC 1572
DB	1367 TTGGTGTGGAGCAGACTTGACAGGAGGCGGAGTATCCCGTGACCTTTGACCTTTTC 1426
QY	1573 AGGAGATCTCCACAAAGAGCGTGGTGTAAATTTCCGCTGGGAGCTGTTGATGATGAGAAC 1632
DB	1427 AGAGGCCACGGGCAAGAACGTCATGCTGCTGCTGCTGGGTGAGCGGATGACGAGCCC 1486
QY	1633 ATTGCGAATCAGAAAAATCAAAGGTGGAATCTATAGAGGGGAACCAAAATTTATTTGCTG 1692
DB	1487 ACTCCAGAAATGAAAGCTCAACAGGTATACTACATAGAGGGGAACCAAGATGCTGCGCG 1546
QY	1693 CCTTTTCTTACAGATGGCCAGCTCCATTAATACAAAGAACCTTCT 1739
DB	1547 CGTACTGTATGAGGTCTCCAGCTGAAGGACTAGGCCAAGCCCTCT 1593

XX	Human diagnostic and therapeutic (dithp) cDNA sequence #8.	CC	disorders. The antibodies can be used to analyse protein expression
DE		CC	levels
XX		XX	
KW	Human diagnostic and therapeutic molecule; dithp; gene therapy;	SQ	Sequence 1879 BP; 432 A; 487 C; 562 G; 398 T; 0 U; 0 Other;
KW	thalassemia; cardiovascular disorder; cell proliferative disorder;		Query Match 20.9%; Score 469.4; DB 4; Length 1879;
KW	cancer; neurodegenerative disorder; autoimmune disorder; enzyme;		Best Local Similarity 58.6%; Pred. No. 8.6e-93;
KW	infectious disorder; inflammatory disorder; developmental disorder;		Matches 836; Conservative 0; Mismatches 586; Indels 5; Gaps 1;
XX	IncYTE ID number 9970897dec; ss.		
OS	Homo sapiens.	QY	313 TCTTCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGAGTGGGTGG 372
XX		Db	136 TGTTTAAGTACATAGATGAATAATCAGGATCGCTACATTAGAATACTCGAAAAATGGGTGG 195
PN	WO200121836-A2.	QY	373 CCATCGAGAGCGACTCTGTCCAGCTGTGCTCCCTTCCAGACAGAGCTCTTCAGAATGA 432
XX	29-MAR-2001.	Db	196 CTATCCAGAGTGTCTCT-----GGTGGCCCGGAGAGAGAGGCGGAATCAGAGGATGA 250
XX	19-SEP-2000; 2000WO-US025643.	QY	433 TGGCCGTGGCTGGCGGACACGCTGACGCGCTGGGGGCGGTGTGGCTCGGTGGACATGG 492
PR	23-SEP-1999; 99US-0155760P.	Db	251 TGGAAAGTTGCTGCTGCAGATGTTAAGCAGATTGGGGGCTCTGTGGAACCTGGTATATCG 310
PR	24-SEP-1999; 99US-0155939P.	QY	493 GTCTCAGCAGCTGCCCGATGGTCAGAGTCTTCCAACTCCCTCGTCTCATCTGCGCCGAC 552
PR	28-SEP-1999; 99US-0156294P.	Db	311 GAAACAAAAGCTCCCTGATGGCTCGGAGATCCCGCTCTCTATTTCTGCTCGGCAAGC 370
PR	28-SEP-1999; 99US-0156565P.	QY	553 TGGGAGCGATCCCAAGAAAGGACCGTGTGCTTCTACGGCCACTTGGACGTGCGAGCTG 612
PR	28-SEP-1999; 99US-0156624P.	Db	371 TGGGCTCCGACCCACAGAGAACCGGTGTGCAATTTACGGGCACCTGGATGTGAGGCTG 430
PR	28-SEP-1999; 99US-0156625P.	QY	613 CTGACCGGGCGATGGGTGGCTCACGGACCCCTATGTGTGACGAGGTAGACGGGAAC 672
PR	28-SEP-1999; 99US-0167410P.	Db	431 CAGCCCTGGAGGACGGCTGGGACAGCGAGCCCTTCACCTGGTGGAGCGACGCGCAAGC 490
PR	24-NOV-1999; 99US-0167517P.	QY	673 TTTATGACGAGGAGCGACCGACAAAGAGCCCTGTCTGGCTTGGATCAATCTGTGA 732
PR	24-NOV-1999; 99US-0167520P.	Db	491 TGCATGGGAGAGGTTCCACTGATGATAAGGGCCCGGTGGCGGCTGGATAAACCCCTGG 550
PR	24-NOV-1999; 99US-0167521P.	QY	733 GCGCTTTCAGAGCCCTCGAGCAAGATCTTCTGTGTAATATCAAAATTCATCATTCAGGGGA 792
PR	24-NOV-1999; 99US-0167522P.	Db	551 AAGGTATCAGAAAAACAGGCCAGGAGATTCTGTGACGCTCCGATTCTGCTCGAAGGCA 610
PR	24-NOV-1999; 99US-0167542P.	QY	793 TGAAGAGGCTGGCTCTGTTGCCCTGGAGAACTTTGTGGAAGAAAGAAAGACCGATTCT 852
PR	24-NOV-1999; 99US-0167543P.	Db	611 TGGAGGAGTCAAGCTCTGAGGGGCTTAGACGAGCTGATTTTTCGCCGGAAGACACATTCT 670
PR	29-NOV-1999; 99US-0167943P.	QY	853 TCTCTGGTGGTACATGTAATTTTCAGATACCTGTGATACGACGACCAAGGAAGCCAG 912
PR	30-NOV-1999; 99US-0168197P.	Db	671 TTAAGGATGTGGACTACGTCTGCAATTTCTGACAAATTAATCTGGCTGGGAAAGAACCCCT 730
PR	30-NOV-1999; 99US-0168265P.	QY	913 CAATCACTTATGGAACCCCGGGGAACAGCTTCTATGTTGGAGGTGAATTCAGAGAC 972
PR	30-NOV-1999; 99US-0168423P.	Db	731 GCATCAGCTACGGCTCAGGGGCAATTTGCTACTTTTTTCATCGAGTGGAGTGCAGCAACA 790
PR	01-DEC-1999; 99US-0168432P.	QY	973 AGGATTTTCACTCAGGAACCTTTGGTGGCATCTTTCATGAACCAATCGCTGATCTGGTTG 1032
PR	01-DEC-1999; 99US-0168468P.	Db	791 AAGACCTCCATTCTGGGGTGTACGGGGGCTCGGTGTCATGAGGCCATGACTGATCTCATTT 850
PR	02-DEC-1999; 99US-0168599P.	QY	1033 CTCTTCTCGTAGCTGGTAGACTCGTCTGTCATATCTCTGGTCCCTCGGATCTATCATG 1092
PR	02-DEC-1999; 99US-0168611P.	Db	851 TGCTGATGGGCTCTTTGGTGGCAAGAGGGGGGAACATCTGATCCCGGCAATTAAACAGG 910
PR	02-DEC-1999; 99US-0168613P.	QY	1093 AAGTGGTTCTCTTACAGAAGAGGAATAATAATACATAACAAGCCATCCATCTAGACCTAG 1152
XX	(INCY-) INCYTE GENOMICS INC.	Db	911 CCGTGGCCCGCTCAGCGAAGAGGAGCAAGCTGTACAGCAGCATCGATCTTTGACATAG 970
XX	Hodgson DM, Lincoln SE, Russo FD, Spiro PA, Banville SC;	QY	1153 AAGAATAACCGAATAGCAGCCGGTGTGAGAAATTTCTGTTTCGATCTAAGAGAGGATTC 1212
XX	Bratcher SR, Dufour GE, Cohen HJ, Rosen BH, Shah P, Chalup MS;	Db	971 AGGAGTTTGCACAGGATGTGGGGGCGCAGATCTCTCTGACAGGCAACAAGAAAGACATCC 1030
PI	Hillman JL, Jones AL, Yu JY, Greenawalt LB, Panzer SR, Roseberry AM;	QY	1213 TAATGACCTCTCGAGGTACCCATCTCTTTCTATTCTATTCGATCGAGGGCGGCTTTGATG 1272
PI	Wright RJ, Chen W, Liu TP, Yap PE, Stockdreher TK, Ameshey S;	Db	1031 TCATGCACCGATGGCGGTACCCGCTCTCTGTCTCCATCGCATGGAAGAGGCCCTTCTCTG 1090
PI	Fong WT;		
XX	WPI; 2001-281607/29.		
XX			
XX	Novel diagnostic and therapeutic polynucleotides, used in disease		
PT	diagnosis and for gene therapy of conditions such as cancer and		
PT	thalassaemia.		
XX	Claim 1; Page 255; 299pp; English.		
XX			
CC	The present sequence for human diagnostic and therapeutic (dithp) cDNA		
CC	sequence #8 is 1 of 71 (AAS03012-AA03082) novel sequences described in		
CC	the invention. The present sequence (IncYTE ID No: 9970897dec) encodes an		
CC	enzyme molecule. The dithp polynucleotides may be used to diagnose a		
CC	condition disease or disorder associated with human molecules. They can		
CC	be used to identify the presence of similar nucleic acids. Dithp		
CC	polynucleotides may used to generate hybridisation probes for use in		
CC	chromosomal mapping. Polypeptides (DITHP) encoded by dithp are used to		
CC	screen for molecules which bind to them and modulate their activity.		
CC	Dithp polynucleotides can be used for gene therapy of disorders such as		
CC	severe combined immunodeficiency syndrome (SCID) cystic fibrosis,		
CC	thalassaemia, haemophilia resulting from Factor VIII or IX deficiencies,		
CC	cardiovascular disorders e.g familial hypercholesterolaemia (FH), cell		
CC	proliferative disorders e.g. cancers, neurodegenerative disorders,		
CC	autoimmune/inflammatory disorders, infectious disorders and developmental		



```
Qy 853 TCTCTGTGTGGACTACATGTTAAATTTTCAGATAACCTGTGGATCAGCAAGGAGCCAG 912
Db      |||
Qy 723 TTAAGGATGTGGACTAGTCTGCAATTTCTGACATTTACTGGCTGGAAAGAGCCCT 782
Db      |||
Qy 913 CAATCATTATGGAACCCGGGGGAACAGCTACTCTTCATGCTGGTGGAGGTGAATGCGAGACC 972
Db      |||
Qy 783 GCATCAGCTACGGCTCAGGGGCAATTTGCTACTTTTTCATCGAGGTGGAGTGCAGCAACA 842
Db      |||
Qy 973 AGGATTTTCACTCAGGAACCTTTTGGTGGCATCTTTCATGAACCAATCGCTGATCTGGTTG 1032
Db      |||
Qy 843 AAGACCTCCATCTTGGGGTGTACGGGGCTCGGTGCAATGAGCCCATGACTGATCTCAATTT 902
Db      |||
Qy 1033 CTCTTCTGGPAGCCTGGTAGACTCGTGTGCTCATATCTCTGGTCCCTGGAATCTATGATG 1092
Db      |||
Qy 903 TGTCTGATGGGCTCTTTGGTGGACAAGAGGGGGAACATCTCTGATCCCCGGCATTAACGAGG 962
Db      |||
Qy 1093 AAGTGGTTCCTTTACAGAGAGAGAAATAATACATACAAAGCCATCATCTAGACCTAG 1152
Db      |||
Qy 963 CCGTGGCGCGCTCACGGAAGAGAGGACACAGCTGTACGAGCATCGACTTTGACATAG 1022
Db      |||
Qy 1153 AAGAATACCGGAATAGCAGCGCGGTTCGAGAAATTTCTGTTTCGATACTAAGGAGGAGATTC 1212
Db      |||
Qy 1023 AGGAGTTGCGAAGATGTGGGGCGGAGATCTCTTCGACAGCCACAGAAAGACATCC 1082
Db      |||
Qy 1213 TAATGCACTCTGGAGGTACCCATCTCTTTCTATTCTATTCATGGATCGAGGGCGCTTTGATG 1272
Db      |||
Qy 1083 TCATGCAACCGATGCGGTACCCGCTCTCTGTCTCCCTCCATGGCATCGAAGCGCTTCTCTG 1142
Db      |||
Qy 1273 AGCTGGAATAAACAGTCACTACTGCGCGAGTTATAGGAAATTTTCAATCGCTAG 1332
Db      |||
Qy 1143 GGTCTGGGGCAAGCCGCTGATTTCCAGGAAGTGGTGGCAAGTTCTTCCATCAGGCTCG 1202
Db      |||
Qy 1333 TCCCTCATCATGAATGTCTGCGTGGAAACAGGTGACACGACATCTTTGAAGATGTT 1392
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Qy 1203 TGCCGAATGACTCTCTGAAGTCTGCGGAGGAGGTCACAGCTACTTAAGTAAAGT 1262
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Qy 1393 TCTCAAAGAAATFAGTTTCAAACAGATGGTGTGTTTCCATGACTCTAGGACTACACCCGT 1452
Db      |||
Qy 1263 TTGCTGAATACGACAGCCCAATGAGTTCAAGGTGTATCGGCGCACGGTGGGAAGCCCT 1322
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Qy 1453 GGATGCAATATGTATGACACCCAGTATCTCGCAGCAAAAGAGGATCGAAGACAGTGT 1512
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Qy 1323 GGGTCTCGGACTTCAGTCAACCTCATTAACCTGGCTGGGAGAGGCCATGAAGACAGTTT 1382
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Qy 1513 TTGGAACAGAACCATGATATGATCGGGATGATCCACATTTTCCAAATTTGCCAAATGTTCC 1572
Db      |||
Qy 1383 TTGTTGTTGACCCAGACTTGACAGGAGAGCGGAGTATTCCTGCACTTGACCTTTC 1442
Db      |||
Qy 1573 AGGAGATCGTCCACAAGAGCGTGTGCTAAATTCGCTGGGAGCTGTTGATGATGGAGAAC 1632
Db      |||
Qy 1443 AGGAGGCCACGGGCAAGAAAGTCAATGCTGCTGCTGCTGCTGCGGTGACGGGATGACGGAGCC 1502
Db      |||
Qy 1633 ATTGCGAGATGAGAAATACAGAGTGGAACTACATAGAGGGAACCAAAATTTTCTG 1692
Db      |||
Qy 1503 ACTCCAGATGAAAGACTCAACAGGTATTAACATACATAGAGGGAACCAAGATGCTGGCCG 1562
Db      |||
Qy 1693 CCTTTTCTTAGAGATGCGCCAGCTTCCATTAATCACAAGAACCTTCT 1739
Db      |||
Qy 1563 CGTACCTGTATAGGTCTCCAGCTGAAGGACTAGGCAAGCCCTCT 1609
Db      |||
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## RESULT 42

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AAH14599
ID AAH14599 standard; cDNA; 2643 BP.
XX
AC AAH14599;
XX
DT 26-JUN-2001 (first entry)
XX
DE Human cDNA sequence SEQ ID NO:12213.
XX
KW Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
XX
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## Homo sapiens.

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PN EP1074617-A2.
XX
PD 07-FEB-2001.
XX
PF 28-JUL-2000; 2000EP-00116126.
XX
PR 29-JUL-1999; 99JP-00248036.
PR 27-AUG-1999; 99JP-00300253.
PR 11-JAN-2000; 2000JP-00118776.
PR 02-MAY-2000; 2000JP-00183767.
PR 09-JUN-2000; 2000JP-00241899.
XX
PA (HELI-) HELIX RES INST.
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PI Ora T, Isozaki T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
XX WPI; 2001-318749/34.
```

Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs.

Claim 8; SEQ ID NO 12213; 2537pp + Sequence Listing; English.

The present invention describes primer sets for synthesising 5602 full-length cDNAs defined in the specification. Where a primer set comprises: (a) an oligo-dT primer and an oligonucleotide complementary to the complementary strand of a polynucleotide which comprises one of the 5602 nucleotide sequences defined in the specification, where the oligonucleotide comprises at least 15 nucleotides; or (b) a combination of an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises a 5'-end sequence and an oligonucleotide comprising a sequence complementary to a polynucleotide which comprises a 3'-end sequence, where the oligonucleotide comprises at least 15 nucleotides and the combination of the 5'-end sequence/3'-end sequence is selected from those defined in the specification. The primer sets can be used in antisense therapy and in gene therapy. The primers are useful for synthesising polynucleotides, particularly full-length cDNAs. The primers are also useful for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs. The primers allow obtaining of the full-length cDNAs easily without any specialised methods. AAH03166 to AAH13628 and AAH13633 to AAH18742 represent human cDNA sequences; AAH92446 to AAH95893 represent human amino acid sequences; and AAH13629 to AAH13632 represent oligonucleotides, all of which are used in the exemplification of the present invention

Sequence 2643 BP; 638 A; 660 C; 749 G; 596 T; 0 U; 0 Other;

Query Match 20.9%; Score 469; DB 4; Length 2643;

Best Local Similarity 58.6%; Pred. No. 1.2e-92;

Matches 836; Conservative 0; Mismatches 585; Indels 6; Gaps 1;

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Qy 313 TCTTCCAGTACATTGACCTCCATCAGATGAATTTGTCAGACGCTGAGGATGGGTGG 372
Db      |||
Qy 182 TGTTTAAGTACATAGATGAAAAATCAGGATCGCTACATTAAGAACTCGCAAAATGGGTGG 241
Db      |||
Qy 373 CCATCGAGAGCGACTCTGTCCAGCTGTGCTCGCTTCAGACAAAGAGCTCTTCAGAATGA 432
Db      |||
Qy 242 CTATCAGAGTGTGTCTGCTGCGCCGGAG-----RAGAGAGCGGAATCAGGAGATGA 295
Db      |||
Qy 433 TGGCCGTGGCTGCGGACACGCTCAGCGCTCGGGGGCCCGTGTGGCCCTCGGTGGACATGG 492
Db      |||
Qy 296 TGGAAAGTTGCTGCTGCAGATGTTAAGCAGTTGGGGGGCTCTGTGGAACCTGGTGATATCG 355
Db      |||
Qy 493 GTCTCTCAGCAGCTGCCCGATGGTCAGAGTCTTCCAATACCTCCGTCATCTGCCGAAC 552
Db      |||
Qy 356 GAAAAACAAAAGCTCCCTGATGGTGGCGAGATCCCGCTCCCTCTATTTCTGCTGGCAGGC 415
Db      |||
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Db 182 TGTTTAAGTACATAGATGAATAATCAGGATCGCTTACATTAAGAAATTCGCAAAATGGGTGG 241

Qy 373 CCATCCAGAGCGACTCTGTCCAGCTGTGCTCGCTTCAGACAAGAGCTCTTTCAGAAATGA 432

Db 242 CTATCCAGAGTGTGTCTGGTGGCCGGAG-----NAGAGAGCGGNAATCAGGAGGATGA 295

Qy 433 TGGCCGTGGCTGGGACACGCTGCACGCGCTGGGGCCCGTGTGGCCCTCGGTGGACATGG 492

Db 296 TGGAACTGTCTGCTGCAGATGTTAAGCAGTGTGGGGGGCTCTGTGGAACTGGTGGATATCG 355

Qy 493 GTCTCAGAGCTGCGCGATGGTTCAGAGTCTTCCAATACCTCCGTCATCTCGGCCGCAAC 552

Db 356 GAAAAAATAAGCTCCCTGATGGCTCGGAGATCCCGCTCCCTCTCTATCTGTCTCGGCGAGC 415

Qy 553 TGGGGAGCGATCCACAGAAAGGACCGTGTGCTTCTACGGCCACTTTGGACGCTGCGAGCTTG 612

Db 416 TGGGCTCCGACCCACAGAGAACGCGTGTGCAATTTACGGGCACCTGGATGTGACGCTTG 475

Qy 613 CTGACCGGGCGATGGGTGGCTCAGCGACCCCTATGTGTGACGAGGTAGACGGGAAC 672

Db 476 CAGCCCTGGAGGACGGCTGGGACAGCGAGCCCTTCAACCTGTGGAGCGAGACGGCAAGC 535

Qy 732 TTTATGACGAGGACGACCGACACAAAGGCGCTGTCTTGGCTTGGATCAATGTCTGTGA 732

Db 536 TGTATGGAGAGGTTTCACTGATGATGAAGGCGCGGTGGCGCTGGATTAACGCCCTGG 595

Qy 733 GCGCCTTTACAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATCATTTGAGGGA 792

Db 596 AAGCGTATCAGAAACAGGCGAGGAGATCTCTGTCAAGCTCCGATTTCTGCTCGAAGGCA 655

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Db 656 TGGAGGAGTCAAGCTCTGAGGGGCTTAGACAGAGTGATTTTGGCCCGGAAGACACATTC 715

Qy 853 TCTCTGTGTGGATCAATTTGATTTTCAATAACCTGTGGATCAGCCAAAGGAAGCCAG 912

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Qy 913 CAATCACTTATGGAAACCCGGGGGAAACAGCTACTTCTATGTGTGGAGGTGAATTCAGAGACC 972

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Qy 1033 CTCTTCTCGGTAGCTCGTCTGTGTCATATCTCTGTCCTCGTGGAAATCTATGATG 1092

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Qy 1093 AAGTGGTTCTTTACAGAGAGGAATAATATACATACAAGCCATCCATCTAGACCTAG 1152

Db 956 CCGTGGCGCGCTCACGGAAGAGGAGCAACAGCTGTACGACATCGACTTTTGACATAG 1015

Qy 1153 AAGAAATCCGAATAGCAGCGGGTTGAGAAATTTCTGTCATATAAGGAGGAGATTC 1212

Db 1016 AGGAGTTGGCAAGATGTGGGGGCGCAGATCTCTTCGACAGCCACAAGAGACATCC 1075

Qy 1213 TAATGCACCTCTGGAGTACCCTCTCTTCTATTCATTCATGGAATCGAGGGCGGTTGATG 1272

Db 1076 TCATGCACCGATGGCGGTACCCTGCTCTGTCCTCCATGGCATCGAAGGGCGCTTCTCTG 1135

Qy 1273 AGCTGGAACTAAACAGTCACTCTGCGCGAGTTATAGGAATTTTCAATCCGCTAG 1332

Db 1136 GGTCTGGGGCCAAAGACCGTGATCCAGGAAGGTGGTTGGCAAGTTCTCCATCAGGCTCG 1195

Qy 1333 TCCCTCATCAATGTGTCTGGGTGGAAAAACAGGTGACACGACATCTTTGAAGATGTGT 1392

Db 1196 TGCCGAATCACTCTCAAGTGTCTGCGGAGGAGGTACAAAGCTACCTAACTAAGAAGT 1255

Qy 1393 TCTCAAAAGAAATAGTTTCCAAAGATGGTTGTTTTCATGACTCTAGGACTACACCGT 1452

Db 1256 TTGCTGAACTACGCGACCCCAATGAGTTCAAGGTGTATCATGGGCACGGTGGGAAGCCCT 1315

Qy 1453 GGATTGCAAAATTTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTGT 1512

Db 1316 GGGTCTCCGACTTCAGTCCACCTCATTACCTGGGTGGGAGAGGCCATGAGACAGTTT 1375

Qy 1513 TTGGAACAGAACAGATATGATCCGGGATGATCCACCATTTCCAATTCGCAAAATGTTTC 1572

Db 1376 TTGGTGTGAGCGAGACTTGACAGGGAAGGGGCGAGTATTTCCGTGACCTTGACCTTTC 1435

Qy 1573 AGGAGATCGTCCACAAGAGCGTGTGTAAATTCGCTGGGAGCTGTTGATGATGAGAAC 1632

Db 1436 AGGAGGCCACGGGCAAGAAACGTCTGCTGCTGCTGGGTGAGCGGATGACGGAGCCC 1495

Qy 1633 ATTCCAGAAATGAGAAATCAACAGGTGGAACATACAGAGGGAACCAAAATTTATTGCTG 1692

Db 1496 ACTCCAGAAATGAAAGCTCAACAGGTATATACTACATAGAGGGAACCAAGATGCTGGCG 1555

Qy 1693 CCTTTTCTTAGAGATGGCCAGCTCCCAATTAATCAAGAACCTTCT 1739

Db 1556 CGTACTGTATGAGGTCTCCAGCTGAAGGACTAGGCCAAGCCCTCT 1602

RESULT 45

ACC72761

ID ACC72761 standard; cDNA; 2643 BP.

XX AC ACC72761;

XX AC ACC72761;

DT 09-JUL-2003 (first entry)

XX Human cancer related protein encoding cDNA SEQ ID NO:100.

DE Human; cancer; diagnosis; screening; modulator; leukaemia; ischaemia;

KW heart disease; atherosclerosis; endometriosis; gene; ss.

XX Homo sapiens.

OS WO2003025138-A2.

XX 27-MAR-2003.

PD 17-SEP-2002; 2002WO-US029560.

XX 17-SEP-2001; 2001US-0323469P.

PR 20-SEP-2001; 2001US-0323887P.

PR 13-NOV-2001; 2001US-0350666P.

PR 08-FEB-2002; 2002US-0355145P.

PR 08-FEB-2002; 2002US-0355257P.

PR 12-APR-2002; 2002US-0372246P.

XX (BOSB-) EOS BIOTECHNOLOGY INC.

PA Afar D, Aziz N, Gish KC, Hevezi PA, Mack DH, Wilson KE;

XX Zlotnik A;

PI WPI; 2003-354600/33.

XX P-PSDB; ABR58614.

DR New genes that are up-regulated or down-regulated in cancers, useful as

DR markers for diagnosing e.g. cancer, ischemia or heart diseases, or as

XX therapeutic targets for screening drugs for treating these diseases.

PS Claim 8; Page 676-677; 767pp; English.

XX The present invention describes an isolated nucleic acid molecule, which

CC comprises the sequence of any of the genes that are up-regulated or down-

CC regulated in specific cancers (e.g. about 1031 genes up-regulated in

CC acute lymphocytic leukemia). ACC72841 to ACC72860 represent cancer

CC related gene nucleotide sequences which encode the proteins given in

CC ABR58521 to ABR58709. Also described: (1) determining the presence or

CC absence of a pathological cell in a patient; (2) an expression vector

CC comprising a nucleic acid molecule described above; (3) a host cell

CC comprising the vector; (4) an isolated polypeptide, which is encoded by

CC the nucleic acid; (5) an antibody that specifically binds the polypeptide  
CC of (4); (6) specifically targeting a compound to a pathological cell in a  
CC patient by administering to the patient the antibody above; and (7) a  
CC drug screening assay. The nucleic acid is useful as diagnostic markers or  
CC therapeutic targets. In particular, the nucleic acid is useful for  
CC diagnosing a pathology, e.g. cancer (e.g. cancer of the bone marrow,  
CC bladder, brain, breast, cervix, colon/rectum, kidney, lung, ovary,  
CC pancreas, prostate, skin and uterus), wounds, ischaemia, heart diseases,  
CC atherosclerosis and endometriosis. The nucleic acid is also useful in  
CC drug screening, particularly for identifying agents for treating these  
CC pathologies

Sequence 2643 BP; 640 A; 662 C; 747 G; 594 T; 0 U; 0 Other;

Query Match 20.9%; Score 469; DB 10; Length 2643;

Best Local Similarity 58.6%; Pred. No. 1.2e-92;

Sequence alignment	Score	Matches	Mismatches	Indels	Gaps
Conservative	836	0	585	6	1

QY 313 TCTTCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGTGG 372

Db 182 TGTTAAGTACATAGATGAAATCAGGATCGCTACATTAAAGAACTCGCAAAATGGGTGG 241

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Qy 373 CCATCGAGAGCGACTCTGTCCAGCCTGTGCCCTCGCTTCAGACAAGAGCTCTTCAGAAATGA 432

d<sub>b</sub>

243 CTATCCACGCTGTCTCTCCTCCCGCCGC-----AACGCCCAATACTCCAGCATCA 285

DB 242 CTA TCCAGAGTG TGTCTGCGTGGCCGGAG-----AAGAGAGGCGAAATCAGGAGGATGA 295

QV 433 TGGCCGTGGCTGCGGACACGCTGCAGCGCCCTGGGGGCCCGTGTGGCCTCGGTGGACATGG 492

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Db 296 TGGAGTTGCTGCTGCAGATGTTAAGCAGTTGGGGGCTCTGTGGAACCTGGTGATATCG 355

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QY 493 GTCTCAGCAGCTGCCCGATGGTCAGAGTCTTCCAATACCTCCCGTCATCTGGCCGAAC 552

[illegible]

LD 356 GAAATACAAAGCTCCCTGATGGCTCGGAGATCCCGCTCCCTCCATATCTGCTCGGAGGC 415

553 TGGGGAGCGATCCCA CGAAAGGCACCGTGTGCTTCTACGGCCACTTGGACGTGCAGCCTG 612

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Db 416 TGGGCTCCGACCCACAGAAGACCGTGTGCA TTACGGGCACCTGGATGTGCAGCCTG 475

Qy 613 CTGACCGGGCGATGGGTGGCTACGGACCCCTATGTGCTGACGGAGGTAGACGGAAAC 672

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Db 536 TGTATGGGAGAGGTTTCGACTGATGATAAGGCCCGGTGGCCCGCTGGATAAACGCCCTGG 595

733 GCGCCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAATTCATCATTGAGGGA 792

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XX		Db	716	TTAAGGATGTGGACTATGTCGCAATTTCTGCAATTTACTGGCTGGGAAAGAAAGCCCT	775
PT	New tumor-associated antigenic target polypeptides and nucleic acids,	QY	913	CAATCACTTATGGAACCCCGGGGAAACAGCTACTTTCATGTTGGAGGTGAATATGACAGACC	972
PT	useful in preparing a medicament for treating or detecting a	Db	776	GCATCACCTACGGCTCAGGGGCAATTTGCTACTTTTTCATCGAGGTGGAGTGCAGCAACA	835
PT	proliferative disorder, e.g. breast, lung, colorectal, ovarian or				
PT	prostate cancer or tumor.				
XX		QY	973	AGATTTTCACTCAGGAACCTTTTGTGGCATCCTTCATGAACCAATGGCTGATCTGGTTG	1032
XX	Claim 1; SEQ ID NO 5082; 7273pp; English.	Db	836	AAGACCTCCATTTCTGGGGGTGATCGGGGGCTCGGTGATGAGGCCATGACTGATCTCATTT	895
CC	The invention relates to human tumour-associated antigenic target (TAT)	QY	1033	CTCTTCTCGGTAGCTGGTAGACTCGTCTGGTTCATATCTCTGCTCCCTGGAATCTATGATG	1092
CC	polypeptides, and their related nucleic acids. The TAT polypeptides are	Db	896	TGCTGATGGCTCTTTTGTGGACAAGAGGGGAAACATCTGATCCCGGCATTAACGAGG	955
CC	overexpressed in cancer tissues compared to normal tissues, and may thus	QY	1093	AAGTGTTCCTCTTACAGAAAGAGGAAATAAATACATACAAAGCCATPCCATCTAGACCTAG	1152
CC	serve as effective targets for the diagnosis and treatment of cancer in	Db	956	CCGTGGCCCGCTCAGCGAAGAGGAGCAACAGCTGTACGACGACATCGACTTGGACATAG	1015
CC	mammals. The invention also relates to nucleic acid and polypeptide	QY	1153	AAGAATACCGGAATAGCAGCCGGTTGAGAAATTTCTGTTCGATACTAAGGAGGAGATTC	1212
CC	sequences at least 80% identical to the TAT nucleic acids and	Db	1016	AGGAGTTTCCCAAGGATGTGGGGGGCGCATCTCTCGCACAGCCACAAAGAAAGACATCC	1075
CC	polypeptides; expression vectors and host cells comprising a TAT nucleic	QY	1213	TAATGACCTCTGGAGGTACCCATCTCTTCTTATTCATGGGATCGAGGCGGTTTGATG	1272
CC	acid; an antibody specific for a TAT polypeptide; a peptide or organic	Db	1076	TCATGACCGATGGCGGTACCCGCTCTGTCTCCCTCATGGCATCGAAGCGCTTCTCTG	1135
CC	molecule which binds to a TAT polypeptide; fusion proteins comprising a	QY	1273	AGCTGGAACTAAAAACAGTACATACCTGGCCGAGTTATAGGAAAAATTTTCAATCCGCTAG	1332
CC	TAT polypeptide; and methods and compositions for the treatment or	Db	1136	GGTCTGGGSCCAAGACCCGTGATTCACGAGAGTGGTTGGCAAGTTCTCCATCAGGCTCG	1195
CC	diagnosis of cancer in mammals. TAT polypeptides, nucleic acids,	QY	1333	TCCTCAGATGATGTGTCTGGGTGGGAAAAACAGGTGACAGACATCTTGAAGATGTGT	1392
CC	antibodies, antagonists, binding molecules and compositions are useful	Db	1196	TGCCGAACATGACTCTCTGAAGTCTGTGGCGAGCAGGTCAACAGCTACCTAAAGAAAGT	1255
CC	for diagnosing or treating a cell proliferative disorder associated with	QY	1393	TCTCCAAAGAAATAGTTTCCAAAGATGTTGTTTTCATGACTCTAGGACTACACCCGT	1452
CC	increased TAT expression, particularly cancers such as breast cancer,	Db	1256	TTGCTGMACTACGAGCCCAATGATTCAGGTGTACATGGGCCACGGTGGGAAGCCCT	1315
CC	colorectal cancer, lung cancer, ovarian cancer, liver cancer, bladder	QY	1453	GGATTGCAAAATTTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTGT	1512
CC	cancer, pancreatic cancer, cervical cancer, cancers of the central	Db	1316	GGGTCTCGACTTCAGTCACTCATCTTACCTGGCTGGGAGAGAGCCATGAAGACAGTTT	1375
CC	nervous system, melanoma and leukaemia. TAT nucleic acids may further be	QY	1513	TTGGAACAGAACCATATGATCGGGATGATCACCATTCCCAATTCGCAAAATGTTCC	1572
CC	used as hybridisation probes, in chromosome and gene mapping, in	Db	1376	TTGGTGTGTGAGCAGCATTTGACAGGAGCGGCGAGTATTTCCCGTGACCTTTGACCTTTC	1435
CC	chromosome identification and in gene therapy. The present sequence	QY	1573	AGGAGATCGTCCACAGAGCGTGGTGTAAATTCGCTGGAGCTGTGTGATGAGAGAAC	1632
CC	represents a TAT nucleic acid of the invention	Db	1436	AGGAGCCACGGGCAAGAACGTGTCATGCTGCTGTGGGTGAGCGGATGACGGAGGCC	1495
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QY	20.9%; Score 469; DB 13; Length 2643;	Db	1556	CGTACCTGTATGAGTCTCCAGCTGGAAGGACTAGGCCAAGCCCTCT	1602
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Db	596 AAGCGTATCAGAAAAACAGGCCAGGAGATTCCTGTCAACGTCCGATTTCTGCTCGAAGCA				655
QY	793 TGGAGAGGCTGCTCTGTTGCCCTGGAGAACTCTTGGAAAGAAAGGACCGATCT				852
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## RESULT 47

AA199591  
ID AA199591 standard; cDNA; 1988 BP.

XX  
AC AA199591;

DT 04-JAN-2002 (first entry)

XX Human expressed polynucleotide SEQ ID NO 54.

DE Human; nontropic; neuroprotective; cytostatic; dermatological; virucide;  
KW Human immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnery;







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DT 07-NOV-2001 (first entry)
XX Novel cDNA encoding for human ADAM or serine protease.
XX
XX Human; ADAM; a disintegrin and metalloprotease domain; adamalysin;
KW serine protease; cancer; immune disease; blood-related disorder; HMWFW73;
KW hyperproliferative disorder; renal disorder; cardiovascular disorder;
KW respiratory disorder; inflammatory disorder; neurological disorder;
KW endocrine disorder; reproductive system disorder; infectious disease;
KW gastrointestinal disorder; gene therapy; cytostatic; anti inflammatory;
KW fertility; thrombolytic; anti coagulant; neurotropic; neuroprotective; ss.
XX
OS Homo sapiens.
XX
XX Key Location/Qualifiers
XX CDS 151..1581
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XX /transl except= (pos:529..531,aa:Xaa)
XX /note= "Xaa=unknown. This sequence lacks a start codon"
XX
XX WO200155309-A2.
XX
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XX
XX 17-JAN-2001; 2001WO-US001311.
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XX 31-JAN-2000; 2000US-0179065P.
XX 04-FEB-2000; 2000US-0180628P.
XX 24-FEB-2000; 2000US-0184664P.
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XX 18-APR-2000; 2000US-0198123P.
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PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX Rosen CA, Barash SC, Ruben SM;  
XX P-PSDB; AAU06066.  
XX WPI; 2001-451927/48.  
XX Isolated polypeptide for treating, preventing and/ or prognosing  
XX disorders such as cancer, inflammation, infertility, neurological  
XX disorders, blood clotting disorders and also for testing and detection  
XX e.g. diagnosis.  
XX Claim 4; SEQ ID NO 11; 433pp; English.  
XX The present invention relates to a novel cDNA sequence encoding for a  
XX novel human ADAM (proteins which contain A Disintegrin And  
XX Metalloprotease domain, also known as adamalysins) or serine protease.  
XX The cDNA is cloned from cDNA clone HMWFM73. The polynucleotide sequences  
XX encoding for the novel ADAM or serine protease and the polypeptide itself  
XX are useful for preventing, treating or ameliorating a medical condition,  
XX particularly cancer, when administered. They can be used in the treatment  
XX and diagnosis of a range of conditions such as immune diseases (e.g.  
XX severe combined immunodeficiency, SCID), blood-related disorders (e.g.  
XX haemophilia), hyperproliferative disorders (e.g. leukaemia), renal  
XX disorders (e.g. kidney failure), cardiovascular disorders (e.g. heart  
XX disease), respiratory disorders (e.g. asthma), inflammatory disorders  
XX (e.g. rheumatoid arthritis), neurological disorders (e.g. Parkinson's  
XX disease), endocrine disorders (e.g. hyperthyroidism); reproductive system  
XX disorders (e.g. testicular atrophy), infectious disease (e.g. HIV), and  
XX gastrointestinal disorders (e.g. appendicitis). The polynucleotide  
XX sequences of the invention are also useful in gene therapy. The present  
XX sequence encodes for a novel human ADAM or serine protease. Note: The  
XX sequence data for this patent did not form part of the printed

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QY 673 TTTATGGACGAGGAGCGACCGACCAACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGA 732  
DB 527 TGYATGGAGAGGTTTGGATGATGATAGAGGCGCGGTGGCGGTGATTAACGCGCTGG 586  
QY 733 GCGCCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATATTGAGGGA 792  
DB 587 AAGCGTATCAGAAAAACAGGCCAGGAGATTCTGTCAACGTCGATTTCTGCTCGAAGCA 646  
QY 793 TGAAGAGCTGGCTCTGTTCCTCGGAGGAACTTGTGMAAAAGAAAAAGAACCAATCT 852  
DB 647 TGGAGAGTCAAGGCTCTGAGGCGCTAGACGAGCTGATTTTGGCCGGAAGACATCT 706  
QY 853 TCTCTGGTGTGACTACATTTGTAAATTTTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAG 912  
DB 707 TTAAGGATGTGACTATGTCTGCAATTTCTGCAATTTACTGGCTGGGAAAGAAAGCCCT 766  
QY 913 CAATCACTTATGGAACCCGGGGGAAACAGTACTTTCATGGTGGAGCTGAAATCGCAGACC 972  
DB 767 GCATCACCTACGGCCTCAGGGGCATTTGCTACTTTTTCATCGAGGTGGAGTGCACACA 826  
QY 973 AGGATTTTCACTCAGGAACCTTTTGTGGCATCTTTCATGAACCAATGGCTGATCTGGTTG 1032  
DB 827 AAGACCTCATTTCTGGGTGTACGGGGCTCGGTGCATGAGGCCATGACTGATCTCAIT 886  
QY 1033 CTCTTCTCGGTAGCCTGTGATCTGTGTCATATCTGTGTCTCTCTGGAATCTATGATG 1092  
DB 887 TGTGATGGCTCTTTTGGTGGACAAAGAGGGGAAACATCTGATCCCGGCATTAACGAGG 946  
QY 1093 AAGTGTCTCTTACAGAGAGGAAATATACATACAAAGCCCATCCATCTAGACCTAG 1152  
DB 947 CCGTGGCCCGCTCAGGAAGAGGAGCAAGCTGTACGACACATCGACTTTGACATAG 1006  
QY 1153 AAGATACCGGAATAGCAGCCGGTGTAGAAAATTTCTGTTCGATACTAGGAGGAGATTC 1212  
DB 1007 AGAGTTTCCAAAGNATGTGGGGCGCAGATCTCTGCACAGCCACAAAGAACATCC 1066  
QY 1213 TAATGACCTCTGGAGGTACCATCTTCTTATTCATGGGATCGAGGCGGCTTGTGATG 1272  
DB 1067 TCATGACCGATGGCGGTACCGGTCTCTGTCTCCATCGCATCGAAGCGGCTCTCTG 1126  
QY 1273 AGCTGGAATAAAACAGTCATACCTGGCGGAGTTATAGAAAATTTTCAATCCGCTAG 1332  
DB 1127 GGTCGGGGCCAGACCGTATTCAGGAAGGTGGTGGCAAGTTCTCCATCAGGCTCG 1186  
QY 1333 TCCCTCACATGAATGTCTGCGGTGGAAAAACAGGTGACAGACATCTTGAAGATGTGT 1392  
DB 1187 TGCCGAACATGACTCTCGAAGTCTGCGGAGCAGGTCAACAGCTACCTAACTAAGAAGT 1246  
QY 1393 TCTCCAAAAGAAATAGTTCACAAAGATGGTTGTTTCCATGACTCTAGGACTACACCGT 1452  
DB 1247 TTGCTGAACCTACGACGCCCAATAGTTCAAGGTGTACATGGGCCACGGTGGGAAGCCCT 1306  
QY 1453 GGATTCGCAATATTTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGGATCAGAACAGTGT 1512  
DB 1307 GGGTCTCCGACTTCAGTCAACCTCATTACTGGCTGGAGAGAGCCATGAAGACAGTTT 1366  
QY 1513 TTGGAAACAGAACCAAGATATGATCCGGATGGAATCCACCATTCATTTGCAATGCGCAATGTTCC 1572  
DB 1367 TTGGTGTGAGCCAGACTTGACCCAGGAAAGCGCGAGTATTTCCCGTGACCTTACCTTTC 1426  
QY 1573 AGGAGATCTGCCACAGAGCGGTGCTTAATTCGCTGGGAGCTGTGTGATGTGAGGAAC 1632  
DB 1427 AGAGGCCACGGCAGAGAGCTCATGCTGCTGCTGTGGGTGAGCGGATGACGGAGCCC 1486  
QY 1633 ATTTCGAGATGAGAAAAATCAACAGGTGGAACTTACATAGAGGAAACCAAAATTTTGTGCTG 1692  
DB 1487 ACTCCAGATGAAGAGCTCAACAGGTATAAATACATAGAGGAAACCAAGATGCTGCGCCG 1546

QY 1693 CCTTTTCTTAGAGATGCCAGCTCCATTATTAATCACAAGAACCTTCT 1739  
 DB 1547 CGTACCTGTATGAGTCTCCAGCTGAAGGACTAGGCCAAGCCCTCT 1593

## RESULT 49

AAH75199  
 ID AAH75199 standard; DNA; 1428 BP.

XX AC AAH75199;

DT 13-NOV-2001 (first entry)

XX DE Nucleotide sequence of a human carnosinase 2 (HC2) polypeptide.

XX KW Human; carnosinase 2; HC2; cognitive disorder; foetal deficiency; trauma;  
 KW developmental abnormality; neurodegenerative disorder; schizophrenia;  
 KW amyotrophic lateral sclerosis; Parkinson's disease; ischaemic shock;  
 KW epilepsy; polyarthritis; hypertension; ischaemic heart damage; ulcer;  
 KW adrenal cortical function; wound healing; inflammatory disease; ss.

XX OS Homo sapiens.

XX FH Key Location/Qualifiers

XX FT CDS 1. 1428

XX FT FT /\*tag= a

XX FT FT /product= "carnosinase 2 (HC2)"

XX PN EPI122307-A1.

XX PD 08-AUG-2001.

XX PP 04-FEB-2000; 2000EP-00400313.

XX PR 04-FEB-2000; 2000EP-00400313.

XX PA (SNFI ) SANOFI-SYNTHELABO.

XX PI Ledig J, Saudek V;

XX DR WPI: 2001-543058/61.

XX DR P-PSDB; AAG67236.

XX Human carnosinase polypeptides and polynucleotides, useful for treating  
 PT or preventing cognitive disorders, developmental abnormalities and fetal  
 PT deficiencies, neurodegenerative disorders, or inflammatory disorders.

PS Claim 1; Page 16-19; 30pp; English.

XX The present sequence encodes a human carnosinase 2 (HC2) polypeptide. The  
 CC carnosinase polypeptides and polynucleotides are useful for treating or  
 CC preventing cognitive disorders, developmental abnormalities and fetal  
 CC deficiencies, neurodegenerative disorders, such as amyotrophic lateral  
 CC sclerosis, Parkinson's disease, schizophrenia, abnormal mental states,  
 CC ischaemic shock, epilepsy, polyarthritis, hypertension, ischaemic heart  
 CC damage, ulcers, adrenal cortical function, wound healing, trauma, and  
 CC inflammatory diseases. The HC2 polynucleotides may also be used as  
 CC diagnostic probes or primers. Hybridization probes for cDNA and genomic  
 CC DNA, to isolate full length cDNAs and genomic clones encoding HC2 and  
 CC other genes having high similarity to the HC2 gene, as research reagents  
 CC and materials for discovery of treatments and diagnostics for animal and  
 CC human diseases, and for chromosome identification. The HC2 polypeptides  
 CC may be used as immunogens to produce antibodies immunospecific for the  
 CC HC2 polypeptides, to induce immunological response in a mammal against  
 CC the above mentioned disorders, in screening for candidate compounds which  
 CC stimulate or inhibit the activity of HC2, and to assess the binding of  
 CC small molecule substrates and ligands in cells, cell-free preparations,  
 CC chemical libraries or natural product mixtures

SQ Sequence 1428 BP; 340 A; 357 C; 436 G; 295 T; 0 U; 0 Other;

Query Match

20.9%; Score 467.8; DB 5; Length 1428;

Best Local Similarity 58.9%; Pred. No. 1.8e-92;  
 Matches 827; Conservative 0; Mismatches 572; Indels 6; Gaps 1;  
 QY 313 TCTTCCAGTACATTCAGCTCCATCAGGATGAATTTGTGCAGACGCTGAAGAGTGGGTGG 372  
 DB 20 TGTTTAAGTACATAGATGAAAATCAGGATCGCTACATTAAGAAAATCGCAAAAATGGGTGG 79  
 QY 373 CCATCGAGAGCGACTCTGTCCAGCCTGTGCCTCTTCAGACAAGAGCTCTTCAGAATGA 432  
 DB 80 CTATCCAGAGTGTGTCTCGTGGCCGGAG-----AAGAGAGGCGAAATCAGGAGGATGA 133  
 QY 433 TGGCCGTGGCTGCGGACACGCTGCAGCGCTGGGGGCCCGTGTGGCCCTCGGTGACATGG 492  
 DB 134 TGAAGTGTGTGCTGCAGATGTTAAGCAGTGTGGGGGCTCTGTGGAATCGGTGATATCG 193  
 QY 493 GTCCTCAGCAGCTGCCGATGGTCAGAGTCTTCAATACCTCCCTCATCTCTGCCCGAAC 552  
 DB 194 GAAACAAAAGTCCCTGTATGGTTCGGAGATCCCGCTCCCTCTTATCTGTCTGGCAGGC 253  
 QY 553 TGGGGAGCGATCCCAAGAAAGGACCGCTGTCTTCTACGGCCACTTGGACCTGCAGCCTG 612  
 DB 254 TGGGCTCCGACCCACAGAGAAGACCGTGTGCATTTACGGGCACCTGGATGTGCAGCCTG 313  
 QY 613 CTGACCGGGCGATGGGTGCTACGGAACCCCTATGTGTGTCGACGGAGTAGACGGGAAC 672  
 DB 314 CAGCCCTGGAGGACGGCTGGGACAGCGAGCCCTTCAACCCTGGTGGAGCGAGACGGCAAGC 373  
 QY 673 TTTATGACGAGGAGCGACCGACAACAAAGGCCCTGTCTTGGCTTGGATCAATCTGTGA 732  
 DB 374 TGTATGGAGAGGTTGCACTGATGATAAGGGCCCGGTGGCCGGCTGGATTAACCCCTGG 433  
 QY 733 GCGCCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATCATTTAGGGGA 792  
 DB 434 AAGGTATCAGAAAACAGGCCAGGAGATTCCTGTCAAGCTCCGATTTCTGCCTCGAGGCA 493  
 QY 793 TGAAGAGGCTGCTCTGTGGCCCTGGAGGAACTTGTGGAAAAGAAAGACCGATTCT 852  
 DB 494 TGGAGGAGTCAAGCTCTGAGGGCTTAGACGAGCTGATTTTTCGCCCGGAAAGACATCTCT 553  
 QY 853 TCTCTGCTGGACTACATTTGTAATTTTCAGATACCTGTGTGATCAGCAAGGAAGCCAG 912  
 DB 554 TTAAGGATGGGACTATGTCTGCATTTTCTGCAATTAATCTGGCTGGGAAAGAAAGCCCT 613  
 QY 913 CAATCACTTATGGAACCCCGGGGAAACAGCTACTTTCATGTTGGAGTGAAATGCAGAGACC 972  
 DB 614 GCATCACTACGGCTCAGGGGCACTTGTCTACTTTTTCATCGAGTGGAGTGCAGAACCA 673  
 QY 973 AGGATTTTCACTCAGGAAACCTTTGGTGGCATTCCTTCAATGAACCAATGGCTGATCTGGTTG 1032  
 DB 674 AAGACCTTCAATCTGGGGGTGTACGGGGCTCGGTGTCATGAGGCCATGACTGATCTCATTT 733  
 QY 1033 CTCTTCTCGGTAGCTCGTCTGCTATATCTCTGCTCCCTGGTCCCTGGATCTATGATG 1092  
 DB 734 TGTGATGGGCTCTTTGTGGACAAGAGGGGGAACATCTCTGATCCCCGGCATTAACGAGG 793  
 QY 1093 AAGTGGTTCCTCTTACAGAAAGAGAAATAAATACATAACAAGCCATCCATCTAGACCTAG 1152  
 DB 794 CCGTGGCCCGCTCACGAAAGAGGAGGACAAAGCTGTACGACGACATCGACTTTGACATAG 853  
 QY 1153 AAGATACCGGAATAGCAGCCGGTTGAGAAAATTTCTGTTCGATACATAAGGAGAGATTTC 1212  
 DB 854 AGGAGTTTGGCAAGGATGTGGGGGCGCAGATCTCTCTGACAGCCACACAAGAAAGACATCC 913  
 QY 1213 TAATGACCTCTCGAGGTACCCATCTCTTCTATTATGATGGATCGAGGGCGCTTTGATG 1272  
 DB 914 TCATGACCGATGGCGTACCCGTCTCTGTCCCTCCATGCGATCGAAGGGCCCTTCTCTG 973  
 QY 1273 AGCCTGGAATAAACAGTCACTACCTGGCCGAGTTATAGGAAAATTTTCAATCCGCTAG 1332  
 DB 974 GGTCTGGGGCCAAAGACCGTGTATCCAGGAAGGTGGTTGGCAAGTTCTCCATCAGGCTCG 1033  
 QY 1333 TCCTTCATGATGTGTCTGCGGTGGAAAAACAGGTGACACGACATCTTTGAAGATGTG 1392

Db 1034 TCCCGAACATGACTCTCTGAAGTCGTGGCGAGCAGGTCTCAAGCTACCTAATAAGAGT 1093  
QY 1393 TCTCCAAAAAGAAATAGTTTCCAAACAAGATGGTTGTTTCCATGACTCTTAGGACTACACCCGT 1452  
Db 1094 TTGCTGAATACGACGCCCAATGAGTCAAGGTGTACATGGGCCACGGTGGGAAGCCCT 1153  
QY 1453 GGATTGCAAAATATGTATGACACCCAGTATCTCGCAGCAAAAGAGCGATCAAGACAGTGT 1512  
Db 1154 GGGTCTCCGACTTCAGTCAACCCCTCATTTACCTGGCTGGGAGAGAGCATGAAGACAGATTT 1213  
QY 1513 TTGGACAGAACAGATATGATCCGGATGGATCCACCAATTCAAATTGCCAAAATGTTCC 1572  
Db 1214 TTGGTGTGAGCCAGACTTACACAGGAAGGGGAGTATTCCTGACCTTGACCTTTC 1273  
QY 1573 AGGAGATCGTCCCAAGAGCGTGGTCTAAATTCGCTGGGAGCTGTGTATGATGGAGAAC 1632  
Db 1274 AGAGGCCACGGGCAAGAGCTCATGCTGCTGCTGGGGTCAGCGGATGACGGAGCC 1333  
QY 1633 ATTCCGAGATGAGAAATCAACAGGTGGAATACATAGAGGGAACCAATATTATTGCTG 1692  
Db 1334 ACTCCAGATGAAAGCTCAACAGGTATACTACATAGAGGGAACCAAGATGCTGGCCG 1393  
QY 1693 CTTTTTCTTAGAGATGGCCAGCT 1717  
Db 1394 CGTACCTGTATGAGGTCTCCAGCT 1418

RESULT 50

AAS97193  
ID AAS97193 standard; cDNA; 1428 BP.

XX AAS97193;

XX 26-FEB-2002 (first entry)

DE Human metalloprotease partial DNA sequence #22.

XX Human; protease; PCR primer; cytostatic; immunomodulator; cardiant;  
KW vasotropic; antimigraine; analgesic; endocrine; nootropic; tranquiliser;  
KW hypertensive; hypotensive; neuroleptic; neuroprotective; anabolic;  
KW anorectic; antiinflammatory; aspartyl protease; cysteine protease;  
KW metalloprotease; serine protease; cancer; haematopoietic; breast; colon;  
KW lung; prostate; cervical; brain; ovarian; bladder; kidney; pain;  
KW immune-related disease; cardiovascular disease; neuronal disease;  
KW migraine; sexual dysfunction; mood disorder; attention disorder;  
KW cognition disorder; hypotension; hypertension; psychotic disorder;  
KW dyskinesia; metabolic disorder; inflammatory disorder; ss.

OS Homo sapiens.

XX W0200183782-A2.

XX 08-NOV-2001.

XX 04-MAY-2001; 2001WO-US014431.

XX 04-MAY-2000; 2000US-0201879P.

XX (SUGEN-) SUGEN INC.

XX Plowman GD, Whyte D, Sudarsanam S, Manning G, Caenepeel S;

XX Payne V;

XX WPI; 2002-041502/05.

XX P-PSDB; AAU72910.

XX Novel protease polypeptide useful for screening for substances that may

XX be used to treat, e.g., cancers, immune-related diseases, cardiovascular

XX disease, migraine, pain, psychotic and inflammatory disorders.

XX Claim 30; Fig 1V-W; 232pp; English.

XX The invention relates to an isolated, enriched, or purified protease

CC polypeptide (I) and polynucleotide (II) encoding (I). (I) may be used to  
CC screen for substances (S) that may modulate its activity. Administering S  
CC (which modulates protease activity in vitro) may be used to treat a  
CC disease or disorder selected from cancers (e.g., of tissues, of blood or  
CC haematopoietic origin, of the breast, colon, lung, prostate, cervical,  
CC brain, ovarian, bladder or kidney), immune-related diseases and  
CC disorders, cardiovascular disease, brain or neuronal-associated diseases  
CC (e.g., central or peripheral nervous system diseases, migraine, pain,  
CC sexual dysfunction, mood disorders, attention disorders, cognitive  
CC disorders, hypotension, hypertension, psychotic disorders, neurological  
CC disorders and dyskinesias), metabolic disorders and inflammatory  
CC disorders. (I) may also be useful as a diagnostic tool for a disease or  
CC disorder such as those above. AAS97159-AAS97195 represent human protease  
CC coding sequences and primers of the invention

SQ Sequence 1428 BP; 340 A; 357 C; 436 G; 295 T; 0 U; 0 Other;

Query Match 20.9%; Score 467.8; DB 6; Length 1428;

Best Local Similarity 58.9%; Pred. No. 1.8e-92;

Matches 827; Conservative 0; Mismatches 572; Indels 6; Gaps 1;

QY 313 TCTTCCAGTACATTCACCTCCATCAGGATGATTTTGTGCAGACGCTGAAGGATGGGTGG 372  
Db 20 TGTTTAAGTACATAGATGAATAATCAGGATCGCTACATTAAAGAAATCGCAAAATGGGTGG 79  
QY 373 CCATCGAGAGCGACTCTGTCCAGCCCTGTCCCTTCAGACCAAGAGCTCTTTCAGAAATGA 432  
Db 80 CTATTCAGAGTGTCTTGGTGGCCGGAG-----AAGAGAGCGGAATCAGGAGATGA 133  
QY 433 TGGCCGTGGCTCGGACACGCTGCAGCGCTGGGGCCCGTGTGGCTCGGTGGACATGG 492  
Db 134 TGGAAAGTTGCTGTCAGATGTTAAGCAGTGTGGGGGCTCTGTGGAATCGTGGATATCG 193  
QY 493 GTCTTCAGCAGCTGCCCGATGCTCAGAGTCTTCCAAATACCTCCCTCATCTCGCCGCAAC 552  
Db 194 GAAAAAAGAGCTCCCTGTATGGCTCGAGATCCCGTCCCTCTCTATCTGCTCGGAGCG 253  
QY 553 TGGGAGCGCATCCACGAAAGGACCGTGTGCTTCTACGCCCATTTGGACGCTGACGCTTG 612  
Db 254 TGGGCTCCGACCCACAGAGAAGAGACGCTGTGCATTTACGGGCACCTGGATGTGACGCTG 313  
QY 613 CTGACCGGGCGGATGGTGGCTCAGGACCCCTATGTGTGTCGAGGAGGTAGACGGGAAC 672  
Db 314 CAGCCCTGGAGACGCGCTGGGACAGCAGCCCTTACCCCTGTGGAGCAGACGGAAGC 373  
QY 673 TTTATGACGAGCAGCAGCGACCGACCAAAAGGCCCTGTCTTGGCTTGGATCAATGTGTGA 732  
Db 374 TGTATGGAGAGGTTCGACTGTATGATAGGGCCCGGTGGCCGGCTGGATAAAGCCCTGG 433  
QY 733 GCGCCTTCAGAGCCCTGGAGCAAGATCTTCTGTGTAATATCAAAATTCATCATTTGAGGGGA 792  
Db 434 AAGCGTATCAGAAAAACAGGCCAGGAGATTCCTGTCAACGCTCCGATTTCTGCTCGAAGGCA 493  
QY 793 TGGAAAGAGCTGGCTCTGTTCCTCGGAGAACTTGTGGAAAAAAGAAAGGACCGATTCT 852  
Db 494 TGGAGAGGTCAAGCTCTGAGGGCTAGACGAGCTGATTTTGGCCCGGAAGAACAATCT 553  
QY 853 TCTCTGTGTGGACTACATTTGTAATTTTCAGATAAACCTGTGGATTCAGCCAAAGGAAGCCAG 912  
Db 554 TTAAGATGTGGACTATGTCTGCAATTTCTGACAAATTTACTGGCTGGGAAAGAAAGCCCT 613  
QY 913 CAATCACTTATGGAACCCGGGGGAAACAGCTACTTCACTGGTGGAGGTGAATTCAGAGACC 972  
Db 614 GCATCACTACGGCTCAGGGGCAATTTGCTACTTTTTCATCGAGGTGGAGTGCAGCAACA 673  
QY 973 AGGATTTTCACTCAGGAACCTTTGGTGGCATCTTCTCATGAACCAATAGGCTGATCTGGTTG 1032  
Db 674 AAGACCTCCATTTCTGGGGTGTACGGGGCTCGGTGTCATGAGGCCATGACTGATCTCATTT 733  
QY 1033 CTCTTCTCGGTAGCTCGGTAGACTCGTGTGGTCAATATCTCGTGGTCCCTCGGATCTATGATG 1092  
Db 734 TGCTGATGGCTCTTTTGGTGGACAAGAGGGGGAACATCTCTGATCCCGGCAATTAACGAGG 793

Qy 1093 AAGTGGTTCCTCTTACAGAGAGAGAAATAAATACATACAAAGCCATCCATCTAGACCTAG 1152  
 Db 794 CCGTGGCGCGCTCACGAGAGAGAGACAAAGCTGTACGACGACATCGACTTTGACATAG 853  
 Qy 1153 AAGAAATACCGGAATAGCAGCGCGGTGAGAAATTTCTGTCGATCTACTAAGAGAGATTC 1212  
 Db 854 AGGAGTTGCGCAAGGATGTGGGGCGGAGATCCCTCTGCACAGCCACCAAGAAAGACATCC 913  
 Qy 1213 TAATGCACTCTGAGAGTACCATCTCTTTCTATTCTATGATCGATCGAGGCGGCTTTGATG 1272  
 Db 914 TCATGACCGATGCGGTACCGCTCTCTGTCCTCCATGGATCGAAGGCGCTTCTCTG 973  
 Qy 1273 AGCTGGAATTAACAGTATACCTGCGCGAGTTATAGGAAATTTTCAATCCGCTAG 1332  
 Db 974 GGTCTGGGGCAAGCCGTGATCCAGGAAGTGGTTGGCAAGTTCTCCATCAGGCTCG 1033  
 Qy 1333 TCCCTCACATGAATGTGTCTCGGTGGAAGAACAGGTGACAGCATCTTGAAGATGTGT 1392  
 Db 1034 TGGCGAACATGACTCCTTGAAGTCTGCGGCGAGCAGGTCAACAAGCTACCTAACTAAGAAGT 1093  
 Qy 1393 TCTCCAAAGAAATAGTTCCAAAGATGGTTGTTCCATGACTCTAGGACTACACCCGT 1452  
 Db 1094 TTGCTGAATACGAGCCCAATGAGTCAAGGTGTATGCGGCGAGGTGGGAGCCCT 1153  
 Qy 1453 GGATTGCAAAATATTGATGACACCCAGTATCTCGCAGCAAAAGAGCGATCAGAACAGTGT 1512  
 Db 1154 GGGTCTCGGACTTCAGTCACCCCTCATTTACCTGGCTGGGAGAGCCATGAAGACAGTTT 1213  
 Qy 1513 TTGGAACAGAACAGATATGATCCGGATGATGATCCAGTATCCATTTCCAAATGTTCC 1572  
 Db 1214 TTGGTGTGAGCCAGACTTGACAGGGAAGGCGGAGTATTTCCCGTGACCTTGAACCTTTC 1273  
 Qy 1573 AGGAGATCGTCCAAAGAGGTGTGTCTAATTCGCTGGGAGCTGTTGATGATGAGAAC 1632  
 Db 1274 AGGAGCCAGCGGCAAGACGTCTATGCTGCTGTGGGTGACGGATGACGGAGCCC 1333  
 Qy 1633 ATTGCGAGAATGAGAAATCAACAGGTGGAACATACATAGAGGGAACAAATTAATTTGCTG 1692  
 Db 1334 ACTCCAGAATGAAAGCTCAACAGGTATTAACATACATAGAGGGAACCAAGATGCTGGCG 1393  
 Qy 1693 CTTTCTTTAGATGGCCAGCT 1717  
 Db 1394 CGTACCTGTATGAGGTCTCCAGCT 1418

RESULT 51  
 AAD33906  
 ID AAD33906 standard; cDNA; 1428 BP.  
 AC AAD33906;  
 DT 16-JUL-2002 (first entry)  
 XX Human carboxypeptidase-like enzyme cDNA #23.  
 DE Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;  
 KW chronic obstructive pulmonary disease; cytostatic; antiasthmatic;  
 KW antiallergic; enzyme; gene; ss.  
 XX Homo sapiens.  
 XX Key Location/Qualifiers  
 XX CDS 1..1428  
 XX /\*tag= a  
 XX /product= "Human carboxypeptidase-like enzyme"  
 FT WO200220805-A2.  
 XX PN  
 XX PD 14-MAR-2002.  
 XX PF 05-SEP-2001; 2001WO-EP010203.  
 XX PP  
 XX PR 11-SEP-2000; 2000US-0231546P.

XX (FARB ) BAYER AG.  
 PA Liou J;  
 XX WPI; 2002-315660/35.  
 DR P-PSDB; AAE20961.  
 XX  
 PT New purified human carboxypeptidase-like enzyme, useful for identifying  
 PT modulators of enzyme activity for treating cancer, asthma, allergy or  
 PT chronic obstructive pulmonary disease.  
 XX  
 PS Claim 1; Fig 23; 127pp; English.  
 XX  
 CC The invention relates to a purified human carboxypeptidase-like enzyme.  
 CC The enzyme is useful for screening for agents which decrease the activity  
 CC of an carboxypeptidase-like enzyme. The invention is also useful for  
 CC treating a carboxypeptidase-like enzyme dysfunction related diseases  
 CC condition such as chronic obstructive pulmonary disease, cancer, asthma  
 CC or allergy. The invention is also useful for modulating carboxypeptidase-  
 CC like enzyme activity in a disease condition. The invention is useful in  
 CC diagnostic assays for detecting diseases and abnormalities or  
 CC susceptibility to diseases and abnormalities related to presence of  
 CC mutations in the nucleic acid sequences which encode the enzyme. The  
 CC present sequence is human cDNA encoding carboxypeptidase-like enzyme  
 XX  
 SQ Sequence 1428 BP; 339 A; 357 C; 437 G; 295 T; 0 U; 0 Other;

Query Match 20.9%; Score 467.8; DB 6; Length 1428;  
 Best Local Similarity 58.9%; Pred. No. 1.8e-92;  
 Matches 827; Conservative 0; Mismatches 572; Indels 6; Gaps 1;

Qy 313 TCTTCCAGTAGTACCTCCATCAGGATGAATTTGTGTCAGACGCTGAAGAGTGGGTGG 372  
 Db 20 TGTTTAAGTACATAGATGAAATACAGATCGTACATTAAGAAACTCGAANAATGGGTGG 79  
 Qy 373 CCATCGAGAGCGACTCTGTCCAGCCTGTGCTCGCTTCAGACAAAGAGCTCTTCAGAATGA 432  
 Db 80 CTATCCAGAGTGTCTGCTGCGTGGCCGAG-----AAGAGAGGCGAAATCAGGAGGATGA 133  
 Qy 433 TGGCGGTGGCTGGGACACGCTCGAGCGCTTGGGGGCCGTGTGGCCCTCGGTGACATGG 492  
 Db 134 TGGAAAGTTGCTGTGTCAGATGTTAAGCAGTGTGGGGGCTCTGTGGAATCTGTGATATCG 193  
 Qy 493 GTCCTCAGCAGCTGCCGATGGTTCAGAGTCTTCCAAATACCTCCGCTCATCTGCCCGAAC 552  
 Db 194 GAAAAAAGCTCCCTGATGGCTCGGAGATCCCGCTCCCTCTTATCTGCTCGGAGGC 253  
 Qy 553 TGGGAGCGATCCCAAGAAAGGACCGTGTGCTTCTACGGCCACTTGGACGTGCGAGCTG 612  
 Db 254 TGGGCTCCGACCCACAGAAAGACCGTGTGCAATTTACGGGCACCTGGATGTGAGCTG 313  
 Qy 613 CTGACCGGGCGATGGGTGGCTCAGGACCCCTATGTGCTGACGAGGTGACGCGGAAC 672  
 Db 314 CAGCCCTGGAGAGCGGTGGGACAGCGAGCCCTTCAACCCTGGTGGAGCAGACGCGCAAGC 373  
 Qy 673 TTTATGGACGAGGAGCGACCGCAACAAAGCCCTGTCTGGCTTGGATCAATCTCTGA 732  
 Db 374 TGATGGGGAGGTTCGACTGATGAAGGGCCGGTGGCCGCTGGATTAACCCCTGG 433  
 Qy 733 GCGCTTTCAGAGCCCTGGAGCAAGATCTTCTGTGAAATATCAAAATTCATCATTCAGGGGA 792  
 Db 434 AAGGATATCAGAAACAGGCGCAGGAGATTCCTGTCAAGTCCGATTCCTGCTCGAGGCA 493  
 Qy 793 TGAAGAGGTGGCTCTGTTGCCCTGGAGAACTTGTGGAAAGAAAGAACCGCATTC 852  
 Db 494 TGGAGAGTCAAGCTCTGAGGGGCTTACACGAGTGTATTTTGGCCGGAAGACATTC 553  
 Qy 853 TCTCTGGTGGACTACATTTGTAATTTTCAGATACCTGTGATCAGCCAGCAAGGAGCCAG 912  
 Db 554 TTAAGGATGGGACTATGTCTGCAATTTCTGACATTTACTGGTGGGAAGAAAGCCCT 613  
 Qy 913 CAATCACTTATGGAACCCGGGGGAACAGCTACTTTCATGCTGGAGGTGAAATGACAGACC 972



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QY 613 CTGACCGGGCGATGGGTGGCTCAGGACCCCTATGTGCTCAACGAGGTAGACGGGAAC 672
Db 480 CAGCCCTGGAGACGGCTGGACAGCGAGCCCTTCACCCCTGGTGGAGCGAGCGCAAGC 539
QY 673 TTTATGACGAGGAGCGACCGACACAAAGAGCCCTGTCTTGGCTTGGATCAATCTGTGA 732
Db 540 TGCATGGGAGAGGTTCTGACTGATGATAAGGGCCCGTGGCGGTGGATAAACCCCTGG 599
QY 733 GCGCTTTAGAGCCCTGGAGCAAGATCTTCCTGTGTAATATCAAAATTCATCTTACGGGA 792
Db 600 AAGCGTATCAGAAACAGGCCAGAGATTCCTGTCAACGTCGCGATTCGCTCGCAAGGCA 659
QY 793 TGGAGAGGCTGGCTCTGTTCCCTGGAGGAACCTTGTGMAAAAGAAAGACCGATTCT 852
Db 660 TGGAGGAGTCAGGCTCTGAGGCGCTAGACGAGCTGATTTTCCCGGAAAGACACATCT 719
QY 853 TCTCTGTGTGGACTACATGTTAATTCAGATAACCTGTGGATCAGCAAAAGGAAGCAG 912
Db 720 TTAAGGATGTGGACTATGTCTGCAATTTCTGACAATTTACTGGCTGGAAAGAAAGCCCT 779
QY 913 CAATCACTTATGGAACCGGGGGAACAGCTACTTCTATGTTGGAGGTGAATGCAAGACC 972
Db 780 GCATCAGCTAGCGGCTCAGGGGCAATTTGCTACTTTTTCATCGAGGTGGAGTGCAGCA 839
QY 973 AGGATTTTCACTCAGGAACCTTTTGGTGGCATCTTTCATGAACCAATGGCTGATCTGTTG 1032
Db 840 AAGACCTCCATCTTGGGGTGTACGGGGCTCGGTGCTAGAGGCCATGACTGATCTCATTT 899
QY 1033 CTCTTCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1092
Db 900 TGTGTAGGGCTCTTGTGGACAAAGGGGGAACATCTGATCCCGCGCATTAACGAGG 959
QY 1093 AAGTGGTTCCTTTACAGAGAGGAATAATACATACAAAGCCATCCTAGACCTAG 1152
Db 960 CCGTGGCGCGGTCACGGAAGAGGAGCACAGCTGTACGACGATCGACTTTGACATAG 1019
QY 1153 AAGAATAACCGAATAGCAGCGGGTTCAGAAATTTCTGTTGATACCTAAAGGAGAGATTC 1212
Db 1020 AGGATTTGCGAAGATGTGGGGGGCGAGATCTCTTCGACAGCCACAGAAAGACATCC 1079
QY 1213 TAATGCACTCTGGAGGTACCCATCTCTTTCTATTCATGGATCAGGGCGCGTTTGATG 1272
Db 1080 TCATGCAACGATGCGGTACCCGCTCTGTCTCTCCATGGCATGGAAGGCGCTTCTCTG 1139
QY 1273 AGCTGGAATTAACAGTCTACTGCGCGAGTTATAGGAATTTTCAATCGCTAG 1332
Db 1140 GGTCTGGGGCCAGACCGGTGATTTCCAGGAAGGTGGTGGCAAGTTCTCCATCAGGCTCG 1199
QY 1333 TCCCTCACATGAATGTCTGCGGTGGAATAACAGGTGACACGACATCTTTGAAGATGTT 1392
Db 1200 TGCGAATGACTCTCTGAAGTCTGCGGAGCAGGTGACAGTACTTAACCTAAGAGT 1259
QY 1393 TCTCAAAGAAATAGTTTCCAAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGT 1452
Db 1260 TTGCTGAATACGAGCCCAATGAGTTCAGGTGTACATGGGCGACCGTGGGAAGCCCT 1319
QY 1453 GGATTTGAAATATTGATCACACCCAGTATCTCGCAGCAAAAGAGCCATCAGACAGTGT 1512
Db 1320 GGGTCTCCGACTTCAGTCAACCCCTATTACTCTGGCTGGGAGAGGCCATGAAGACAGTTT 1379
QY 1513 TTGGAACAGAACCATGATATGATCGGGATGGATCCACATTTCCAAATTTGCCAAATGTTCC 1572
Db 1380 TTGTTGTTGACCCAGACTTGACAGGAGAGCGGCGAGTATTCGCTGACCTTGACCTTTC 1439
QY 1573 AGGAGATCGTCCACAGAGCGTGTGCTAAATTCGCTGGGAGCTGTTGATGATGGAGAAC 1632
Db 1440 AGGAGGCCACGGGCAAGAAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1499
QY 1633 ATTGCGAGATGAGAAATCAACAGGTGGAGTGAATACATAGAGGGAACCAAAATTTTCTG 1692
Db 1500 ACTCCCAAGATGAAAAGCTCAACAGGTATTAATCACTATAGAGGGAACCAAGATGCTGCCG 1559
```

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QY 1693 CCTTTTCTTAGAGATGGCCAGCTCCATTATATCAAGAACCTTCT 1739
Db 1560 CGTACCTGTATGAGGTCTCCAGCTGAGGACTAGGCCAAGCCCTCT 1606

RESULT 53
AAI59038
ID AAI59038 standard; cDNA; 2710 BP.
XX AAI59038;
XX AC AAI59038;
XX DT 22-OCT-2001 (first entry)
XX Human polynucleotide SEQ ID NO 1241.
XX Human; nontropic; immunosuppressant; cytostatic; gene therapy; cancer;
XX peripheral nervous system; neuropathy; central nervous system; CNS;
XX Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
XX amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
XX chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
XX leukaemia; ss.
XX Homo sapiens.
XX OS
XX PN WO200153312-A1.
XX PD 26-JUL-2001.
XX PF 26-DEC-2000; 2000WO-US034263.
XX PR 23-DEC-1999; 99US-00471275.
XX PR 21-JAN-2000; 2000US-00488725.
XX PR 25-APR-2000; 2000US-00552317.
XX PR 20-JUN-2000; 2000US-00598042.
XX PR 19-JUL-2000; 2000US-00620312.
XX PR 03-AUG-2000; 2000US-00653450.
XX PR 14-SEP-2000; 2000US-00662191.
XX PR 19-OCT-2000; 2000US-00693036.
XX PR 29-NOV-2000; 2000US-00727344.
XX (HYSE-) HYSEQ INC.
XX PA
XX Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
XX Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J, Zhao QA;
XX Zhou P, Goodrich R, Drmanac RT;
XX WPI; 2001-442253/47.
XX DR P-PSDB; AAM39882.
XX Novel nucleic acids and polypeptides, useful for treating disorders such
XX as central nervous system injuries.
XX Claim 1; SEQ ID NO 1241; 10078pp; English.
XX The invention relates to human nucleic acids (AAI57798-AAI61369) and the
XX encoded polypeptides (AAM38642-AAM42213) with nontropic.
XX immunosuppressant and cytostatic activity. The polynucleotides are useful
XX in gene therapy. A composition containing a polypeptide or polynucleotide
XX of the invention may be used to treat diseases of the peripheral nervous
XX system, such as peripheral nervous injuries, peripheral neuropathy and
XX localised neuropathies and central nervous system diseases, such as
XX Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
XX lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
XX utilisation of the activities such as: Immune system suppression,
XX Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
XX and thrombolytic activity, cancer diagnosis and therapy, drug screening,
XX assays for receptor activity, arthritis and inflammation, leukaemias and
XX C.N.S disorders. Note: The sequence data for this patent did not form
XX part of the printed specification
XX SQ Sequence 2710 BP; 659 A; 680 C; 765 G; 606 T; 0 U; 0 Other;
XX Query Match 20.8%; Score 467.4; DB 4; Length 2710;
```



	Best Local Similarity	58.5%;	Pred. No. 2.6e-92;	
	Matches	835;	Conservative	0; Mismatches 586; Indels
				6; Gaps
Qy	313	TCCTCCAGTACATTGACCTCCATCAGATGAAATTTGTGACACGCTGAAGAGTGGGTGG	372	
Db	237	TGTTTAAAGTACATAGATGAATAACAGGATCGCTACATTAAGAACTCGCAAAATGGGTGG	296	
Qy	373	CCATCGAGAGCGACTCTGTCCAGCTGTGCTCGCTTCAGACAAAGAGCTCTTCAGATGA	432	
Db	297	CTATCCAGAGTGTCTGCGTGGCGGAG-----AAGAGAGGCGAAATCAGGAGGATGA	350	
Qy	433	TGGCCGTGGCTCGGACACCGCTGACGCGCTGGGGGCCCGTGTGGCCTCGGTGACATGG	492	
Db	351	TGGAAGTTGCTGTCTGCAGATGTTAAGCAGTTGGGGGGCTCTGTGGAATCTGTGTGATATCG	410	
Qy	493	GTCTCTACGAGCTGCCCGATGGTCCAGAGTCTTCCAATACCTCCCGTTCATCCTGGCCGAAC	552	
Db	411	GAATAACAAAGCTCCCTGATGGCTCGGAGATCCCGCTCCCTCTATTCTGTCTGGCAGGC	470	
Qy	553	TGGGAGCGGATCCACAGAAAGGACCGTGTGCTTCTTAGGCCACTTGGACGTGACGCTGG	612	
Db	471	TGGGCTCTGACCCACAGAAAGAACCCGTGTGCAATTTACGGGCACCTGGATGTGCAGCGT	530	
Qy	613	CTGACCGGGCGATGGGTGGCTCACGACCCCTATGTGTCACGAGGTAGACGGGAAC	672	
Db	531	CAGCCCTGGAGACGGCTGGGACAGCAGCCCTTCACTTGTGGGCGAGACGGCAGC	590	
Qy	673	TTTATGACGAGAGCGACCGACAAAGGCCCTGTCTTGGCTTGGATCAATCGCTGTGA	732	
Db	591	TGTATGGGAGAGGTTTCGACTGATATAGGGCCGGTGGCGGCTGGATTAACGCCCTGG	650	
Qy	733	CGCGCTTCAGAGCCCTCGAGCAAGACTCTTCTGTGTAATATCAAATTCATCATTCAGGGGA	792	
Db	651	AAGGTTATCAGAAACAGGCCAGAGATCTCTGTCAAGTCCGATTTCTGCTCGAAGGCA	710	
Qy	793	TGGAAGGCTGGCTCTGTGGCTGGAGGAATCTGTGGAAAAAGAAAGGACCGATCT	852	
Db	711	TGGAGGAGTCAGGCTCTGAGGGCTTAGACGAGCTGATTTTGGCCGGAAGACACATCT	770	
Qy	853	TCTCTGCTGGACTACATTTGTAATTTTCAGATACCTGTGATCAGCCAAAGGAGGCAG	912	
Db	771	TTAAGGATGTGAATATGTCTGCAATTTCTGCAATTTCTGCTGGGAAAGAAAGGCCCT	830	
Qy	913	CAATCACTTATGGAACCCGGGGAAACAGCTACTTTCATGCTGGAGGTGAAATTCAGAGACC	972	
Db	831	GCATCACTACGGCTCAGGGCATTTTGTACTTTTTCATCGAGGTGGAGTGCAGCAACA	890	
Qy	973	AGGATTTTCTACAGGAACCTTTGCTGGCATCTTCTATGAACCAATGGCTGATCTGGTTG	1032	
Db	891	AAGACCTTCAATTTCTGGGGTGTACGGGGGCTCGGTGCAATGAGCCCATGATCTCAATTT	950	
Qy	1033	CTCTTCTCGGTAGCTGGTAGCTCGTCTGGTCTATCTCTGGTCCCTGGAACTCATGATG	1092	
Db	951	TGCTGATGGGCTCTTTGGTGGACAAGAGGGGGAACATCTCTGATCCCGGCATTAACGAGG	1010	
Qy	1093	AAGTGGTTCTTTTACAGAGAGGAATAAATACATCAAGCCATCCCATCTAGACCTAG	1152	
Db	1011	CCGTGGCGCGCTCACGGAAGAGGAGCACAGCTGTATACGACATCGACTTTGACATAG	1070	
Qy	1153	AAGAAATACCGGAATAGCAGCGGGTTCGAGAAATTTCTGTTTCGATACTAAGGAGAGATTC	1212	
Db	1071	AGGAGTTTGCAAGGATGTGGGGGCGAGATCTCTCTGCAAGCCACAGAAAGACATCC	1130	
Qy	1213	TAATGCACCTGTGAGGTACCCATCTCTTTCTATTTCATGGGATCGAGGGCGCTTTGATG	1272	
Db	1131	TCATGCACCGATGGCGGTACCCGCTCTCTGTCCCTCCATGGCATCGAAGGCGCTTCTCTG	1190	
Qy	1273	AGCTCTGNACTAAACAGTCACTCTGGCCGAGTTATAGGAATTTTCAATCCGCTTAG	1332	
Db	1191	GGTCTGGGGCCACAGCCGTGATCCGAGGAAGGTGGTGGCAAGTTCTCCATCAGGCTCG	1250	
Qy	1333	TCCCTCACATGAATGTGTCTCGGCTGGAAAAACAGGTGCACACGACATCTTTGAAGATGTT	1392	

Db	1251	TGCCGAACATGAC	CTCTCTGAAGT	CGTGGCGAGCAGGT	CAACAGCTCCTTAAGAAGT	1311
Qy	1393	TCCTCCAAAAGAAAT	AGTGTCCAAACAAGAT	TGGTTGTTCATGACTCTTAGGACT	TACACCCGT	1452
Db	1311	TTGCTGAAC	TACGCAGCCCCAAT	GAGTTCAAGGTGTACATGGGCCAC	CGGTGGGAAGCCCT	1370
Qy	1453	GGATTGCAATAT	TGTGATGACACCCAGT	TATCTCCGACGAAAAAGAGCGCAT	CAGAACAGTGT	1512
Db	1371	GGGTCTCCGACT	TTTCAGTCACCCCT	CATTACCTGGCTGGGAGAAGAGCCAT	GAAAGACAGTTT	1430
Qy	1513	TTTGAACACAGAAC	CAGATATGATCCGGATGGAT	CCACATTTCCAATTTGCCAAAAT	GTTCCT	1572
Db	1431	TTGGTGTGAGC	CAGACTTGACAGGAA	GGCGCAGTATTC	CCGTGACCTTGACCTTTC	1490
Qy	1573	AGGAGATCGTCC	ACAAGAGCGTGGTGTAA	TTCGGTGGGAGCTGTGTGATGATGGAGAC	1632	1632
Db	1491	AGGAGGCCAC	GGGCAAGACGT	CATGCTGCTGCTGTGGGGT	CAGCGGATGACGGAGCCC	1550
Qy	1633	ATTTCGCAGAAT	GAGAAAATCAACAGGTGGAACT	TACATAGAGGGAACCAAAT	TATTTCTCTG	1692
Db	1551	ACTCCCAAT	GAAAGCTCAACAGGTATTA	CTACATAGAGGGNA	CCAGATGCTGGCCG	1610
Qy	1693	CCTTTTCTTTAG	ATGGCCAGCTCCATTAAT	CAACAAGACCTTCT	1739	1739
Db	1611	CGTACCTGTAT	GAGTCTCCAGCTGAAGCACT	AGGAGCTAGGCCAAGCCCTCT	1657	1657
RESULT 54						
ADQ99261						
ID	ADQ99261	standard; cDNA; 2710 BP.				
XX	ADQ99261;					
XX						
DT	23-SEP-2004	(first entry)				
XX						
DE		DNA encoding human GPCR-like protein seqid 931.				
XX						
KW		ophthalmological; immunomodulatory; cytostatic; antiatherosclerotic;				
KW		antidiabetic; GPCR-like protein; ophthalmic disorder;				
KW		neurological disorder; immunological disorder; nephritic disorder;				
KW		hormonal dysfunction; cancer; atherosclerosis; diabetes;				
KW		molecular weight marker; food supplement; human; ss.				
XX						
OS		Homo sapiens.				
XX						
PN		US6569662-B1.				
XX						
PD		27-MAY-2003.				
XX						
PF		19-JUL-2000; 2000US-00620312.				
XX						
PR		21-JAN-2000; 2000US-00488725.				
PR		25-APR-2000; 2000US-00552317.				
XX						
PA		(HYSE-) HYSEQ INC.				
XX						
PI		Tang YT, Zhou P, Drmanac RT;				
XX						
DR		WPI; 2001-442255/47.				
XX						
PT		New G-protein-coupled receptor-like polypeptides and polynucleotides,				
PT		useful for treating diseases of ophthalmic, neurological, immunological				
PT		and nephritic systems and hormonal dysfunction, cancer, atherosclerosis				
XX						
PS		Example 2; SEQ ID NO 931; 92pp; English.				
XX						
CC		The invention describes an isolated polynucleotide (I) comprising a fully				
CC		defined (S1) of 749, 3188, 2484, 1169, 2936, 1467, 5773, 5714, 4041,				
CC		1372, 3996, 3945, 2735, 1788, 585, 1782, 927, 5714 or 2282 nucleotides as				
CC		given in the specification, its translated or protein coding portion, its				
CC		extracellular portion or its active domain. The GPCR-like polypeptides				
CC		and polynucleotides are useful for the treatment of diseases of				

CC ophthalmic, neurological, immunological and nephritic systems. They may  
 CC also be used to treat hormonal dysfunction, cancer, atherosclerosis and  
 CC diabetes. The antibodies are useful for detecting or quantitating the  
 CC polypeptide in tissue. The polypeptides can also be used as molecular  
 CC weight markers and as a food supplement. This sequence represents a human  
 CC polynucleotide of the invention.

XX  
 SQ Sequence 2710 BP; 659 A; 680 C; 765 G; 606 T; 0 U; 0 Other;

Query Match 20.8%; Score 467.4; DB 5; Length 2710;  
 Best Local Similarity 58.5%; Pred. No. 2.6e-92;  
 Matches 835; Conservative 0; Mismatches 586; Indels 6; Gaps 1;

Qy 313 TCTTCCAGTACATTGACCTCCATCAGGATGAATTTGTGACAGCCTGAAGAGTGGGTGG 372  
 Db |||||  
 Qy 373 CCATCGAGAGGACTCTGTCCAGCCTGTGCTCGCTTCAGACAAGAGCTTTCAGATGA 432  
 Db |||||  
 Qy 297 CTATCCAGAGTGTCTGCTGCTGGCGCGAG-----AAGAGAGGCGAAATCAGGAGGATGA 350  
 Db |||||  
 Qy 433 TGGCGGTGGCTGCGGACACGCTGCAGCGCCTGGGGGCGGTGCGCTCGGTGACATGG 492  
 Db |||||  
 Qy 351 TGGAGTGTGCTGCTGAGATGTTAAGCAGTTGGGGGGCTCTGTGAACTGGTGGATTCG 410  
 Db |||||  
 Qy 493 GTCCCTCAGCAGCTGCCGATGGTCAGAGTCTTCCAATACCTCCCGTCATCTCGGCCGAAC 552  
 Db |||||  
 Qy 411 GAAACAAGTCCCTGATGGCTCGAGATCCCGCTCCCTCTTATCTGCTCGGAGGC 470  
 Db |||||  
 Qy 553 TGGGAGCGATCCACGAAAGGACCGTGTGCTCTACGGGCACTTGGAGCTGAGCCTG 612  
 Db |||||  
 Qy 471 TGGGCTCTGACCCACAGAAAGAACCGTGTGCACTTTACGGGCACCTGGATGTGAGCCTG 530  
 Db |||||  
 Qy 613 CTGACCGGGGCGATGGGTGGCTCAGCGACCCCTATGTGTCAGCGAGGTAGCGGGAAC 672  
 Db |||||  
 Qy 531 CAGCCCTGGAGGACGGCTGGACAGCGAGCCCTTCACCTCTGTGGAGCGAGCGAAGC 590  
 Db |||||  
 Qy 673 TTTATGGACGAGGAGCGACCGACAAAGGCCCTGTCTTGGCTTGGATCAATCTGTGA 732  
 Db |||||  
 Qy 591 TGTATGGAGAGGTTGACATGATGATAAGGCCCGGTGGCGGCTGGATAAACCCCTGG 650  
 Db |||||  
 Qy 733 CGGCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATCATTTAGGGGA 792  
 Db |||||  
 Qy 651 AAGCGTATCAGAAACAGGCCAGGAGATTCCTGTCAACCGGATCTGCTCCTCAAGGCA 710  
 Db |||||  
 Qy 793 TGGAGAGGCTGGCTCTGCTGCGCTGGAGGAACCTTGTGGAAGAAAGAACCGATTCT 852  
 Db |||||  
 Qy 711 TGGAGGAGTCAAGGCTCTGAGGGCCCTAGACGAGCTGATTTTCCCGGAAAGACATCT 770  
 Db |||||  
 Qy 853 TCTCTGTGTGGACTACATTTGATAATTTCAAGATACTGTGGATCAGCCAAAGGAGCGAG 912  
 Db |||||  
 Qy 771 TTAAGGATGTGGACTATGTCTGCATTTCTGACATTTACTGGCTGGGAAGAGAGCCCT 830  
 Db |||||  
 Qy 913 CAATCATTTATGGAACCCGGGGGAACAGCTACTTTCATGTGGAGGTGAATTCAGAGACC 972  
 Db |||||  
 Qy 831 GCATCAGCTACGGCTCAGGGGCACTTGTCTACTTTTTCATCGAGGTGGAGTGCAGCAACA 890  
 Db |||||  
 Qy 973 AGGATTTTCTCAGGAAACCTTTGGTGGCATCTTTCATGACCAATGGCTGATCTGGTTG 1032  
 Db |||||  
 Qy 891 AAGACCTCCATCTTGGGGGTGTAACGGGGGCTCGGTGCATGAGGCCATGACTGATCTCATTT 950  
 Db |||||  
 Qy 1033 CTCTTCTCGGTAGCTGAGCTGCTGTGCTATATCTTGGTCCCTCGGAATCTATGATG 1092  
 Db |||||  
 Qy 951 TGCTGATGGGCTCTTGTGTGACAAGAGGGGGAACATCTGATCCCGGCAATTAACGAGG 1010  
 Db |||||  
 Qy 1093 AAGTGGTCTCTTACAGAGAGGAAATAATAATCAACAAGCCATCCATCTAGACCTAG 1152  
 Db |||||  
 Qy 1011 CCGTGGCGCGCTCAGCGAAGAGGAGCACAAGCTGTACGACGACATCGACTTTGACATAG 1070  
 Db |||||  
 Qy 1153 AAGAAACCGGAATAGCAGCGGCTTGAGAAATTTCTGTCGATACCTAAGGAGGAGATTC 1212  
 Db |||||  
 Qy 1071 AGGAGTTTGGCAAGGATGTGGGGGCGCAGATCTCTCTGCAAGCAGCCACAAGAAAGACATCC 1130  
 Db |||||

Qy 1213 TAATGCACCTCTGGAGGTACCCATCTCTTTCTATTTCATGGATCGAGGGCGCTTTGATG 1272  
 Db |||||  
 Qy 1131 TCATGCACCGATGGCGGTACCGCTCTCTGCTCCATCCATGCAATGCAAGGCGCTTCTCTG 1190  
 Db |||||  
 Qy 1273 AGCTGGAACCTAATAACAGTATACCTGCGGAGTTATAGGAAATTTTCAATCCGTCTAG 1332  
 Db |||||  
 Qy 1191 GGTCTGGGGCAAGACCGGTGATTCACAGGAAGGTGGTGGCAAGTTCTCCATCAGGCTCG 1250  
 Db |||||  
 Qy 1333 TCCCTCATCATGAATGTCTCTGCGGTGGAATAACAGGTGACACGACATCTTGAAGATGTG 1392  
 Db |||||  
 Qy 1251 TGGCAACATGACTCTCTGAAGTCTGCGGAGCAGGTCAACAGCTACCTAACTAAGAAGT 1310  
 Db |||||  
 Qy 1393 TCTCAAAGAAATAGTTTCCAACAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGT 1452  
 Db |||||  
 Qy 1311 TTGCTGAACACGACAGCCCAATGAGTTCAAGGTGTACATGGGCCACGGTGGGAAGCCCT 1370  
 Db |||||  
 Qy 1453 GGATGCAAAATATTGATGACACCCAGTATCTCGAGCAAAAAGAGCGATCAGAACAGTGT 1512  
 Db |||||  
 Qy 1371 GGGTCTCCGACTTCAGTCACTCCCTCATTTACCTGGCTGGGAGGAAGCCATGAAGACAGTTT 1430  
 Db |||||  
 Qy 1513 TTGGAACAGAACCAAGATATGATCCGGATGATCCACCATTTCCCAATTTGCCAAATGTTCC 1572  
 Db |||||  
 Qy 1431 TTGTTGTTAGCCAGACTTGAACAGGAAGCGGAGTATTTCCCGTGAACCTTGACCTTTC 1490  
 Db |||||  
 Qy 1573 AGGAGATCGTCCACAAGAGCGTGTGCTAAATTCGCTGGGAGCTGTTGATGATGGAGAAC 1632  
 Db |||||  
 Qy 1491 AGGAGGCCACGGGCAAGAACGTCATGCTGCTGCTGCTGGGTGAGCGATGACGGAGCCC 1550  
 Db |||||  
 Qy 1633 ATTGCGAAGATGAGAAATCAACAGGTGGAACTATCATAGAGGGAAACCAATATTATTGCTG 1692  
 Db |||||  
 Qy 1551 ACTCCAGAAATGAAGAACTCAACAGAGTATAACTACATAGAGGGAACCAAGATGCTGGCGC 1610  
 Db |||||  
 Qy 1693 CCTTTTCTTAGAGATGGCCAGCTCCATTAATCAACAAGAACCTTCT 1739  
 Db |||||  
 Qy 1611 CGTACCTGTATGAGTCTCCAGCTGAAGACTAGGCCAAGCCCTCT 1657

## RESULT 55

ADB49021  
 ID ADB49021 standard; cDNA; 2710 BP.

XX ADB49021;

XX 04-DEC-2003 (first entry)

XX Novel human cDNA SEQ ID NO 931.

XX ss; cancer; neurodegenerative disease; human.

XX Homo sapiens.

XX US2003104529-A1.

XX 05-JUN-2003.

XX 04-JAN-2002; 2002US-00037270.

XX 21-JAN-2000; 2000US-00488725.

XX 25-APR-2000; 2000US-00552317.

XX 19-JUL-2000; 2000US-00620312.

XX (ZHOU/) ZHOU P.

XX (TANG/) TANG Y T.

XX (LIUC/) LIU C.

XX (ASUN/) ASUNDI V.

XX (DRMA/) DRMANAC R T.

XX Zhou P, Tang YT, Liu C, Asundi V, Drmanac RT;

XX WPI; 2003-678194/64.

XX New polynucleotide, useful for treating diseases e.g., cancer or  
 PT neurodegenerative diseases.

XX PS Claim 1; SEQ ID NO 931; 99bp; English.

CC The invention relates to a polynucleotide comprising a sequence given in

CC the specification, or its mature protein-coding portion, or its

CC complement. The polynucleotide is useful for treating diseases e.g.,

CC cancer or neurodegenerative diseases and many others listed in the

CC specification. The present sequence represents a novel human cDNA. Note:

CC The sequence data for this patent did not form part of the printed

CC specification but was obtained in electronic format directly from USPTO

CC at seqdata.uspto.gov/sequence.html?DocID=20030104529.

XX SQ Sequence 2710 BP; 659 A; 680 C; 765 G; 606 T; 0 U; 0 Other;

Query Match 20.8%; Score 467.4; DB 9; Length 2710;

Best Local Similarity 58.5%; Pred. No. 2.6e-92;

Matches 835; Conservative 0; Mismatches 586; Indels 6; Gaps 1;

QY 313 TCTTCAGTACATTTGACCTCCATCAGATGAATTTGTGAGAGCTGAAGGATGGTGG 372

DB 237 TGTAAAGTACATAGATGAATAATCAGGATCGCTACATTAAGAAACTCGCAAAATGGTGG 296

QY 373 CCATCAGAGCGACTCTGTCCAGCTGTGCTCGCTTCAGACAAAGAGCTCTTCAGAAATGA 432

DB 297 CTATCAGAGTGTCTGCGTGCCCGAG-----AAGAGAGCGGAATCAGAGGATGA 350

QY 433 TGGCCGTGGCTGCGGACACGCTCGAGCGCTGGGGGCGCGTGTGGCTCGTGGGAATGG 492

DB 351 TGGAAAGTGTCTGTCAGATGTTAAGCAGTTGGGGGGCTCTGTGGAATCGTGGATATCG 410

QY 493 GTCTCAGAGCTGCCGATGTTGAGTCTTCAATACCTCCGTCCTGCGCCGAAC 552

DB 411 GAAAAAAGAAAGCTCCCTGATGGCTCGGAGATCCCGTCCCTCTATTTCTGCTCGGAGGC 470

QY 553 TGGGAGCGATCCACAGAAAGGACCGTGTGCTTCTACGGCCACTTGGAGTGCAGCGCTG 612

DB 471 TGGGCTGTGACCCACAGAAAGACCGTGTGATTTACGGGCACTGGATGTGAGCGCTG 530

QY 613 CTGACCGGGCGATGGGTGCTCAGCGACCCCTATGTGTGTCGAGGAGTGAAGCGGAAC 672

DB 531 CAGCCCTGGAGGACGGCTGGGACAGCGAGCCCTTCACTTGTGGAGCGGAGCGGCAAGC 590

QY 673 TTTATGACAGGAGGACCGACGACAAAGGCGCTGTGCTTGGATCAATGCTGTGA 732

DB 591 TGTATGGAGAGGTTGACATGATGATAGGGCGCGGTGGCGCTGATGAATGAAGCCCTGG 650

QY 733 GCGCTTTGAGAGCGCTGGAGCAGATCTTCTGTGAAATATCAAAATCATATTGAGGGGA 792

DB 651 AAGGTATCAGAAACAGGCGCAGGAGATCTCTGTCACGTCCTGATTTCTGCTCGAAGGCA 710

QY 793 TGGAGAGGCTGGCTCTGTTGCTTGGAGGAACTTTGTGGAAGAAAGAAAGACCGATTCT 852

DB 711 TGGAGGAGTCAAGGCTCTGAGGCGCTAGACGAGTGTATTTTGGCCGGAAGACACATCT 770

QY 853 TCTCTGTGTGACTACATTTGATTTTTCAGATACTTGTGATCAGCAAAAGGAAGCCAG 912

DB 771 TTAAGGATGTGAGATATGTCTGCAATTTCTGCAATTTACTGGCTGGGAAAGAGAGCCCT 830

QY 913 CAATCACTTATGGAACCGGGGAAACAGCTATTCTATGTTGGAGGTGAATGACAGACC 972

DB 831 GCATCACTACGCGCTCAGGGGCACTTTGCTACTTTTTCATCGAGGTGGAGTGCAGCAACA 890

QY 973 AGGATTTTCACTCAGGAACCTTTGGTGGCATCTTTCATGACCAATCGCTGATCTGGTTG 1032

DB 891 AAGACCTCCATTTCTGGGGGTGTACGGGGGCTCGGTGTCATGAGGCCATGACTGATCTCATTT 950

QY 1033 CTCTTCTCGGTAGCTTGTGATCTGCTGTGTCATATCTTGGTCCCTGGAATCTATGATG 1092

DB 951 TGTGATGGGCTCTTTGTTGACAAAGGGGGAACATCTGATCCCCGGCATTAACGAGG 1010

QY 1093 AAGTGGTTCCTTTACAGAGAGGAATAAATAATACAAAGCCATCTCATTAGACCTAG 1152

DB 1011 CCGTGGCGCGCTCAGCGAAGAGGAGCAAGCTGTACGACGACATCGACTTTGACATAG 1070

QY 1153 AAGAAATACCGGAATAGCAGCGGGTTGAGAAATTTCTGTTGATACTAAGGAGGATTC 1212

DB 1071 AGGAGTTTCCCAAGGATGTGGGGCGCAGATCTCTGTCACAGCCACAAAGAACATCC 1130

QY 1213 TAATCAGCTCTGGAGGTACCCATCTCTTTCTATTATTCATGGATCGAGGCGGTTTGATG 1272

DB 1131 TCATGACCGATGGCGGTACCGCTCTCTGCTCCATGGCATCGAAGGCGCTTCTCTG 1190

QY 1273 AGCCTGGAACATAAAACAGTCACTCTGCGCGAGTTATAGGAAAAATTTCAATCCGCTTAG 1332

DB 1191 GGTCTGGGGCCAAAGACCGGTGATTCACAGGAAGTGGTTGGCAAGTTCTCCATCAGGCTCG 1250

QY 1333 TCCTTCATGATGTCTGCGGTGGAAGAAACAGTGACACGACATCTTGAAGATGTCT 1392

DB 1251 TGCCGAACATGACTCTCTGAAGTCGTCGGGAGCAGGTCAAGACTACCTTAAGAAAGT 1310

QY 1393 TCTCCAAAAGAAATAGTTTCCAAACAGATGGTTTTCATATGACTCTAGGACTACACCCGT 1452

DB 1311 TTGCTGNACTACGACGCCCAATGATTCAGGTGTACATGGGCCACGGTGGGAAGCCCT 1370

QY 1453 GGATTCGAATATTGATGACCCAGTATCTCGCAGCAAAAGAGCGATCAGACAGTCT 1512

DB 1371 GGGTCTCCGACTTCAGTCACTCCCTCATTACCTGGCTGGGAGAAAGCCATGAAGACAGTTT 1430

QY 1513 TTGGAACAAACAGATATGATCCGGGATGGATCCACCATTCCTCAATTTGCCAAATGTTCC 1572

DB 1431 TTGGTGTGAGCCAGACTTGACAGGAAGCGGAGTATTTCCCGTGACCTTGACCTTTC 1490

QY 1573 AGGAGATCTCCACAGAGCGTGGTCTAAATTCCTCGGAGAGTGTGTATGATGAGGAAC 1632

DB 1491 AGGAGGCCACGGGCAAGAACGTGCTGCTGCTGTGGGTGAGCGGATGACGGAGCCC 1550

QY 1633 ATTGCGAAGATCAGAAAAATCAACAGTGGAACTACATAGAGGGAACCAATTTATTTGCTG 1692

DB 1551 ACTCCAGAATGAAGAGCTCAACAGGTATTAATACATAGAGGGAACCAAGATGCTGGCCG 1610

QY 1693 CTTTTTTCTTAGATGGCCAGCTCCATTAATCAAGAACCTTCT 1739

DB 1611 CGTACCTGTATGAGGTCTCCAGCTGAAGGACTAGGCCAAGCCCTCT 1657

RESULT 56

AAI99566

ID AAI99566 standard; cDNA; 2659 BP.

XX AAI99566;

XX 04-JAN-2002 (first entry)

XX Human expressed polynucleotide SEQ ID NO 29.

DE Human; nontropic; neuroprotective; cytostatic; dermatological; virucide;

XX Immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnerary;

KW antiparkinsonian; antiskilling; antianaemic; antiarthritic; cancer;

KW antihemetic; hepatotropic; cerebroprotective; antinflammatory;

KW antiallergic; antidiabetic; antitumor; anticonvulsant; antifungal;

KW antiparasitic; cardiac; immune disorder; cardiovascular disorder;

KW neurological disease; infection; nephrotropic; gene therapy; vaccine; ss.

OS Homo sapiens.

XX WO200155387-A1.

PN 02-AUG-2001.

XX 17-JAN-2001; 2001WO-US001310.

XX 31-JAN-2000; 2000US-0179065P.

PR 04-FEB-2000; 2000US-0180628P.

PR 24-FEB-2000; 2000US-0184664P.

PR 02-MAR-2000; 2000US-0186350P.

PR 16-MAR-2000; 2000US-0189874P.

PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209457P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215113P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 11-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226868P.  
PR 22-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 08-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 29-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 02-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249246P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 06-DEC-2000; 2000US-0256719P.  
PR 08-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 08-DEC-2000; 2000US-0251990P.  
PR 15-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-465573/50.  
XX P-PSDB; AAM99954.  
XX Isolated digestive system associated polypeptide for treating, preventing  
PT and/ or prognosing disorders related to the digestive system including  
PT digestive system cancers and also for testing and detection e.g.  
PT diagnosis.  
XX Claim 1; SEQ ID NO 29; 509pp + Sequence Listing; English.  
PS  
XX

The invention relates to novel genes (AA199548-AA199604) and proteins (AA199336-AA199984) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published\\_pct\\_sequences](http://ftp.wipo.int/pub/published_pct_sequences)

Sequence 2659 BP; 660 A; 665 C; 737 G; 597 T; 0 U; 0 Other;

Query Match 19.9%; Score 446; DB 4; Length 2659;  
 Best Local Similarity 58.5%; Pred. No. 1.3e-87;  
 Matches 835; Conservative 0; Mismatches 585; Indels 8; Gaps 3;

Qy	313	TCCTCCAGTACATGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGGTG	372
Db	173	TGTTTAGTACATAGATGAATTCAGGATCGCTACATTAAGAACTCGCAAAATGGGTG	232
Qy	373	CCATCGAGAGCGACTGTCCAGCCTGTGCCTCGCTTCAGACAGAGCTCTTCAGAAATGA	432
Db	233	CTATCCAGAGTGTGTCTGCGTGGCCGGAG-----AAGAGAGCGAAATCAGGAGGATGA	286
Qy	433	TGGCCGTGGTGGGACACGCTGCAGCGCTGGGGCCCGTGTGGCTCGTGGCAATGG	492
Db	287	TGGAAGTTGTCTGTCAGATGTTAAGCAGTGTGGGGGCTCTGTGAACTGGTGATATCG	346
Qy	493	GTCTTCAGCAGCTGCCCGATGGTCAGAGTCTTCCAAATACCTCCC-GTCATCTCGGCCGAA	551
Db	347	GAAACAAAGCTCCCTGATGGCTCGAGATCCCGCTCCCTCTATCTGCTCGGAGG	406
Qy	552	CTGGGAGCGATCCAGAAAGGACCGTGTGCTTTCAGCGCACTTGGACGTGCAGCCT	611
Db	407	CTGCGCTCCGACCCACAGAAAGACCGTGTGATTTACGGGCACCTGGATGTGCAGCCT	466
Qy	612	GCTGACCGGGCGATGGTGGCTCAGCGACCTCATGTGCTGACGGAGGTAGACGGGAA	671
Db	467	GCAGCCTTGAGGACGCTGGGACAGCGACCTTCACCTGTGGAGCGAGCGCAAG	526
Qy	672	CTTTATGACGAGGAGCGACCGACAAACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTG	731
Db	527	CTGTATGGGAGAGTTCGACTGATGATAAGGGCCCGGTGGCCGCTGGATAAAGCCCTG	586
Qy	732	AGGCGCTTCAGAGCCCTGGAGCAGAGATCTTCCTGTGAATCAAAATTCATTCATGAGGG	791
Db	587	GAAGCGTATCAGAAAAACAGGCCAGGAGATTCCTGTCAACGTCGGATTCGCTCGAAGGC	646
Qy	792	ATGGAAGAGGCTGGCTGTGTGTCCTGGAGGAACTGTGGAAAAAGAAAGGACCCATTC	851
Db	647	ATGAGGAGTTCAGCTCTGAGGCGCTAGACAGCTGATTTTCCCGGAAAGACATTC	706
Qy	852	TTCTCTGGTGGACTACATTCATTTTCAAGTAACTGTGGATCAGCCAAAGAGAGCCA	911
Db	707	TTTAAAGGATGTGACTATGTCTGCAATTTCTGACAATTAATCTGCTGGGAAAGAGGCC	766
Qy	912	GCAATCACTTATGGAACCCGGGGAACAGCTACTTTCATGGTGGAGTGAATTCAGAGAC	971
Db	767	TGCATCACCTACGCGCTTCAGGGGCAATTTGTACTTTTTCATCAGGTGGAGTGCAGAAC	826
Qy	972	CAGGATTTTCACCTCAGGAACCTTTGGTGGCATCTTTCATGAACCAATGGCTGATCTGGTT	1031
Db	827	AAAGACCTTCATCTGGGTGTACGGGGCTCGGTGATGAGGCCATGACTGATCTCAT	886
Qy	1032	GCTCTTCTCGGTAGCCTGGTAGACTCGTCTGGTCAATCTCTGGTCCCTGGAATCTATGAT	1091

Db	887	TTGCTGATGGGCTCTTTGGTGGACAAGAGGGGAACATCTGTATCCCCGGCATTAACGAG	946
Qy	1092	GAAGTGGTTCCTTTACAGAGAGGAAATAATACATACAAAAGCCCATCCTAGACCTTA	1151
Db	947	GCGTGGCGCGCTCACGGAAGAGGAGCAAGCTGTACGACGACATCGACTTTGACATA	1006
Qy	1152	GAAGAATACGGGAATAGACCGGGTTGAGAAATTTCTGTTGATCTACTAAGAGGAGATT	1211
Db	1007	GAGGAGTTTGGCAAGGATGTGGGGCGCGAGATCTCTGCACAGGCCACCAAGAAAGACATC	1066
Qy	1212	CTAATCCACTCTGGAGGTACCATCTCTTTCTATTCTATTCATGGGATCGAGCGCGTTTGTAT	1271
Db	1067	CTCATGCCAGTATGGCGGTACCCGCTCTGTCTCCTCTGGCATCGAAGCGCCTTCTCT	1125
Qy	1272	GAGCTGGAACTAAACAGCTCATATCCTGGCCGAGTTATAGGAAAAATTTTCAATCCGTTTA	1331
Db	1126	GGGTCTGGGGCCAAGACCGTGTATCCAGGAAGGTGGTTGGCAAGTTCTCCATCAGGCTC	1185
Qy	1332	GTCCCTCACATGATGTGTCTCGGGTGGAAAAACAGGTGACAGCATCTTGAAGATGTG	1391
Db	1186	GTGCGGAACATGACTCTCTGAAGTCTGCGCGAGCAGGTCAAGAGCTACCTAACTAAGAAG	1245
Qy	1392	TTCTCCAAAAGAAATAGTTCCCAAGATGGTTGTTTCCATCACTCTAGGACTACACCCG	1451
Db	1246	TTTGTGTAAGTACGAGCGCCCAATGAGTTCAAGGTGTACTGGGCCACGGTGGGAGGCC	1305
Qy	1452	TGATTTGCAATATTGATGACACCCAGTATCTCGCAGCAAAAGAGCGCATCAGACAGTG	1511
Db	1306	TGGGTCTCGGACTTCAGTCACTTACCTTACCTGGCTGGGAGAGAGCCATGAAGACAGTT	1365
Qy	1512	TTTGGACAGACCAAGATATGATCCGGATGATCCCATTCCTCAATTTGCCAAAATGTTT	1571
Db	1366	TTTGTGTTTGCCAGACTTGTACAGGGAAGCGGAGTATTTCCCGTGACCTTGACCTTT	1425
Qy	1572	CAGGAGATCGTCCCAAGAGCGGTGTGTAAATTCGCTGGGAGCTGTTGATGATGAGAA	1631
Db	1426	CAGGAGCCACCGGCAAGAACCTCATGCTGCTGCTGTGGGTGAGCGGATGACGAGCC	1485
Qy	1632	CATTGCGAATGAGAAATCAAGAGTGGAACTACATAGAGGGAACCAAAATTTATTTGCT	1691
Db	1486	CATCCCAAGATGAAAAAGCTCAACAGGTATTACTACATAGAGGGAACCAAGATGCTGCC	1545
Qy	1692	GCCTTTTCTTAGAGATGSCCCAGCTCCCATTAATCAAGAACCTTCT	1739
Db	1546	GCCTACTGTATGAGTCTCCAGCTGAAGGACTAGGCCAAGCCCTCT	1593

## RESULT 57

ACH13751  
 ID ACH13751 standard; cDNA; 456 BP.

XX ACH13751;

XX XX  
 DT 13-OCT-2003 (first entry)

XX Human adult brain cDNA #963.

XX Human; ss; sequencing by hybridisation; SBH; expressed sequence tag; EST;  
 genome mapping; biodiversity; genetic disorder.

XX Homo sapiens.

XX US2003073623-A1.

XX 17-APR-2003.

XX 30-JUL-2001; 2001US-00918995.

XX 30-JUL-2001; 2001US-00918995.

XX (DRMA/) DRMANAC R T.

PA (LABA/) LABAT I.

PA (STAC/) STACHE-CRAIN B.  
PA (DICK/) DICKSON M C.  
PA (JONE/) JONES L W.

PI Drmanac RT, Labat I, Stache-Crain B, Dickson MC, Jones LW;

XX WPI; 2003-615964/58.

XX New polynucleotide sequences obtained from various cDNA libraries, useful  
PT as hybridization probes, as oligomers for PCR, for chromosome and gene  
PT mapping, in the recombinant production of protein, or in generating  
PT antisense DNA or RNA.

PS Claim 1; SEQ ID NO 963; 44pp; English.

XX The invention relates to an isolated polynucleotide comprising any one of  
CC 38043 cDNA sequences, appearing as ACH12789-ACH50831, whose sequence was  
CC determined by the technique of SH (sequencing by hybridisation). Also  
CC included is a purified polypeptide comprising a sequence corresponding to  
CC a reading frame of the novel polynucleotide. The nucleic acid sequences  
CC are useful in diagnostics as expressed sequence tags (EST) for  
CC identifying expressed genes or for physical mapping of the human genome,  
CC in forensics, in assessing biodiversities, or in identifying mutations  
CC responsible for genetic disorders and other traits. The nucleotide  
CC sequences are also useful as hybridisation probes, as oligomers for PCR,  
CC for chromosome and gene mapping, in the recombinant production of  
CC protein, or in generating antisense DNA or RNA. The purified polypeptide  
CC is useful for generating antibodies specific for it. The present sequence  
CC is one of the 38043 isolated cDNA/EST sequences. Note: the sequence data  
CC for this patent did not form part of the printed specification, but was  
CC obtained in electronic format directly from USPTO at  
CC seqdata.uspto.gov/sequence.html?docID=20030073623

XX Sequence 456 BP; 82 A; 134 C; 137 G; 100 T; 0 U; 3 Other;

Query Match 18.2%; Score 407.4; DB 9; Length 456;  
Best Local Similarity 99.1%; Pred. No. 2.2e-79;  
Matches 421; Conservative 0; Mismatches 1; Indels 3; Gaps 1;  
QY 135 GGGACTCCCTCTGCCACATTTTGGAGGTTGGGAAAGTTCCTAGAGCTTCAGAACTCC 194  
DB 32 GGCACCTCCCTCTGCCACATTTTGGAGGTTGGGAAAGTTCCTAGAGCTTCAGAACTCC 91  
QY 195 AGCCTAATGGATCCCAACTCGGAGAAATGGCTCGCTCCCTGCTGGCTG---TGCTGCTG 251  
DB 92 AGCCTAATGGATCCCAACTCGGAGAAATGGCTCGCTCCCTGCTGGCTGCTGCTGCTG 151  
QY 252 CTGCTGCTGGAGCGCGCATGTTCTCTCACCCTCCCGCCCGCGCGCTGTAGAGAA 311  
DB 152 CTGCTGCTGGAGCGCGCATGTTCTCTCACCCTCCCGCCCGCGCGCTGTAGAGAA 211  
QY 312 GTCTTCCAGTACATTGACCTCCATCAGGATGAATTTGTGAGAGCTGTAAGGAGTGGTG 371  
DB 212 GTCTTCCAGTACATTGACCTCCATCAGGATGAATTTGTGAGAGCTGTAAGGAGTGGTG 271  
QY 372 GCCATCAGAGCGGACTCTGTCAGCCTGTGCTCGCTTCAGACAAGAGCTCTTCAGAAATG 431  
DB 272 GCCATCAGAGCGGACTCTGTCAGCCTGTGCTCGCTTCAGACAAGAGCTCTTCAGAAATG 331  
QY 432 ATGGCCGTGGTGGGACAGCTGTCAGCGCTGGGGCCCGGTGTGGCTCGGTGGACATG 491  
DB 332 ATGGCCGTGGTGGGACAGCTGTCAGCGCTGGGGCCCGGTGTGGCTCGGTGGACATG 391  
QY 492 GGTCTCAGAGCTGCCCGATGGTCAGAGTTCCTCAATACCTCCGTCATCCTGGCGGAA 551  
DB 392 GGTCTCAGAGCTGCCCGATGGTCAGAGTTCCTCAATACCTCCGTCATCCTGGCGGAA 451  
QY 552 CTGGG 556  
DB 452 CTGGG 456

RESULT 58

ABLI18867

ID ABL18867 standard; DNA; 1347 BP.

XX ABL18867;

XX 26-MAR-2002 (first entry)

XX Drosophila melanogaster genomic polynucleotide SEQ ID NO 8074.

XX Drosophila; developmental biology; cell signalling; insecticide;  
KW pharmaceutical; gene; ds.

XX Drosophila melanogaster.

XX WO200171042-A2.

XX 27-SEP-2001.

XX 23-MAR-2001; 2001WO-US009231.

XX 23-MAR-2000; 2000US-0191637P.

XX 11-JUN-2000; 2000US-00614150.

XX (PEKE ) PE CORP NY.

XX Venter JC, Adams M, Li PWD, Myers EW;

XX WPI; 2001-656860/75.

XX New isolated nucleic acid detection reagent for detecting 1000 or more  
PT genes from Drosophila and for elucidating cell signaling and cell-cell  
PT interactions.

PS Claim 1; SEQ ID NO 8074; 21pp + Sequence Listing; English.

XX The invention relates to an isolated nucleic acid detection reagent  
CC capable of detecting 1000 or more genes from Drosophila. The invention is  
CC useful in developmental biology and in elucidating cell signalling and  
CC cell-cell interactions in higher eukaryotes for the development of  
CC insecticides, therapeutics and pharmaceutical drugs. The invention  
CC discloses genomic DNA sequences (ABLI16176-ABLI30511), expressed DNA  
CC sequences (ABLI01840-ABLI16175) and the encoded proteins (ABBS7737-  
CC ABB72072). The sequence data for this patent did not form part of the  
CC printed specification, but was obtained in electronic format directly  
CC from WIPO at [fip.wipo.int/pub/published\\_pct\\_sequences](http://fip.wipo.int/pub/published_pct_sequences)

XX Sequence 1347 BP; 377 A; 278 C; 359 G; 333 T; 0 U; 0 Other;

Query Match 15.5%; Score 348.2; DB 4; Length 1347;  
Best Local Similarity 56.0%; Pred. No. 3e-66;  
Matches 709; Conservative 0; Mismatches 543; Indels 15; Gaps 2;

QY 412 GACAAGAGCTTTCAGAAATGATGCGCTGCTCGGACACGCTGCGAGCGCTCGGGGCC 471  
DB 83 GAGCGAGATCGGTCTGATGGTGAATGGACCGGATCGGCTGAGGTCTCTGGCGCCG 142  
QY 472 GTGTGCGCTCGGTGACATGGTCTCTCAGCAGTGCCTGCTGCTGCTGCTGCTGCTG 531  
DB 143 AGACAGAGCTGGCAGATGTGGGTGACAGACTTTTCCGAAACGCCAGATTATACCTCTAC 202  
QY 532 CTCCCTCATCTCTGGCGGAACTGGGGAGCGGATCCACAGAAAGCAGCGTGTGCTTCTACG 591  
DB 203 CAAAGGTCTGCTGGGAACTTTGGGCAAGACCCCTCTAAGAAGACCGTGTGCTGCTATG 262  
QY 592 GCACATTGACAGCTGACCTGCTGACCGGGGCGATGGGTGCTCAGGACCCCTATGTGC 651  
DB 263 GTCATTTGGATGTGACCGCGCCCTCAAGGAAGATGGATGGAAACCAATCCCTTTGAGC 322  
QY 652 TGAACGAGGTAGACGGGAACTTTATGGACGAGGAGCGGACCGACACAAAGGCCCTGTCT 711  
DB 323 TTACAGAGGTGGATGGAACAACTGTTTGGACGCGGGGCAATCCGACGACAAAGGGACCTTTC 382  
QY 712 TGGCTTGGATCAATGCTGTGAGCGCCTTCAGAGCCCTTCAGAGCAAGATCTTCTGCTGAATA 771

[illegible]

RESULT 59  
ABL18871  
ID ABL18871 standard; DNA; 1389 BP.  
XX  
AC ABL18871;

XX	26-MAR-2002	(first entry)
XX	Drosophila melanogaster	genomic polynucleotide SEQ ID NO 8086.
XX	Drosophila	developmental biology; cell signalling; insecticide;
XX	pharmaceutical; gene; ds.	
XX	Drosophila melanogaster.	
XX	WO200171042-A2.	
XX	27-SEP-2001.	
XX	23-MAR-2001;	2001WO-US009231.
XX	23-MAR-2000;	2000US-0191637P.
XX	11-JUL-2000;	2000US-00614150.
XX	(PEKE )	PE CORP NY.
XX	Venter JC, Adams M, Li PWD, Myers EW;	
XX	WPI;	2001-656860/75.
XX	New isolated nucleic acid detection reagent for detecting 1000 or more	
XX	genes from Drosophila and for elucidating cell signaling and cell-cell	
XX	interactions.	
XX	Claim 1; SEQ ID NO 8086; 21pp + Sequence Listing; English.	
XX	The invention relates to an isolated nucleic acid detection reagent	
XX	capable of detecting 1000 or more genes from Drosophila. The invention is	
XX	useful in developmental biology and in elucidating cell signalling and	
XX	cell-cell interactions in higher eukaryotes for the development of	
XX	insecticides, therapeutics and pharmaceutical drugs. The invention	
XX	discloses genomic DNA sequences (ABU16176-ABU30511), expressed DNA	
XX	sequences (ABU01840-ABU16175) and the encoded proteins (ABBS7737-	
XX	ABH72072). The sequence data for this patent did not form part of the	
XX	printed specification, but was obtained in electronic format directly	
XX	from WIPO at ftp.wipo.int/pub/published_pct_sequences	
XX	Sequence 1389 BP; 389 A; 287 C; 365 G; 348 T; 0 U; 0 Other;	
XX	Query Match	15.5%; Score 348.2; DB 4; Length 1389;
XX	Best Local Similarity	56.0%; Pred. No. 3e-66;
XX	Matches	709; Conservative 0; Mismatches 543; Indels 15; Gaps 2;
QY	412	GACAAAGAGCTCTTCAGAAATGATGCCGTGGCTGCGGACAGCTGCAGCGCTGGGGGCC 471
Db	125	GAGCGGAGATCGTCTGATGGTGAATGGACCGCGGATCGCTGAGGTCTCTGGGCGCG 184
QY	472	GTGTGGCCCTCGGTGGACATGGGTCTCAGCAGCTGCCCGATGGTGCAGAGTCTTCAATAC 531
Db	185	AGACAGAGCTGGCAGATGTGGTTCAGCAGACTTTTGCCGAACGGCCAGATTATACCTTAC 244
QY	532	CTCCCGTCATCTCGCGCACTGGGAGCGATCCCAAGAAAGCAGCGTGTCTTCTACG 591
Db	245	CAAAAGTTCTCTCGGAACTTTGGGCAAGACCCCTCTAAGAACCGGTGTGGTCTATG 304
QY	592	GCCACTTGGACGTGCAGCCTCTCAACGGGGCGATGGGTGGCTCACGGACCCCTATGTGC 651
Db	305	GTCAATTGGATGTGACGCCGCCCTGAAGAAAGATGGATGAAACACCAATCCCTTTGAGC 364
QY	652	TGACGGAGGTAGACGGGAAACTTTATGGAACGAGAGCGACCGACAAACAAAGCCCTGTCT 711
Db	365	TTACAGAGGTGGATGGAAACTGTTTGGACGCGGGGATCCGACGACAAAGGACCTGTTC 424
QY	712	TGGCTTGGATCAATGCTGTGAGCGCCTTCAGAGCCCTTGAGCAAGATCTTCTCTGTGAATA 771
Db	425	TGTGCTGGATCCAGCTATCGAAGCTTATCAGAAGCTCAACATTTGCATGCTGCTGTGAATG 484
QY	772	TCAAATTCATATTGAGGGGATGAAGAGGCTGGCTCTGTGGCCCTGGAGGAACCTTGTGG 831





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QY 900 CAAAGGAGCCAGCAATCATTATGGAACCGGGGACAGCTACTTTCATGGTGGAGTG 959
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
245 AAGAAAGAGCCCTCGCATCCTACGGCTCAGGGGCAATTTGCTACTTTTTCATCGAGGTG 304
QY 960 AAATGCGAGAGACAGGAGTTTTCATCTCAGGAACCTTTTGTGTGCATCCTTCATGAACCAATG 1019
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
305 GAGTGCAGCAACAAGACCTCCATCTTGGGTGTACGGGGCTCGGTGCATGAGGCCATG 364
QY 1020 GCTGATCTGGTGTCTTCTCGTAGCTGTGAGATCGTGTGTCATATCCTGGTCCCT 1079
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
365 ACTGATCTCAATTTTGTCTGATGGCTCTTTGGTGACAAAGAGGGGGAACATCTGATCCCC 424
QY 1080 GGAATCTATGATGAAGTGTTCTCTTACAGAGAGGAATAAATACATACAAAGCCATC 1139
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
425 GGCATTACGAGGCGGTGGCGCGCTCAGGAAGAGGAGCACAGCTGTACGACGATC 484
QY 1140 CATCTAGACCTTAGAAGATACCGAATAGCAGCGGGTTGAGAAATTTCTGTTCGATACT 1199
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
485 GACTTTGACATAAAGGAGTTTGCCAAAGATGTGGGGCGCAGATCCTCTGCACAGCCAC 544
QY 1200 AAGGAGGAGATCTAATGACCTCTGGAGTACCATCTCTTCTATTATCATGGATCGAG 1259
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
545 AAGAAAGACATCTCATGCAACCGATGCGGTGACCGCTCTGTCTCCCTCCATGCGATCGAA 604
QY 1260 GCGCGTTTGATAGCCTGGAATAAACACAGTACATCTGCGCGAGTTATAGGAAATTT 1319
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
605 GCGCGCTTCTGCGGTCTGGGCCACAGCCGTGATTCACAGGAGGTGTGCAAGTTC 664
QY 1320 TCAATCCGCTPAGTCCCTCATGAATGTGTCTGCGGTGGAACAGAGTGACACGACAT 1379
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
665 TCCATCAGGCTCGTGCAGACATGACTCCTGAAGTCTGCGCGAGCAGGTACAAAGCTAC 724
QY 1380 CTTGAAGATGTTCTCCAAAGAAATAGTTCACAGATGTTGTTTCATGACTCTA 1439
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
725 CTAACTAAGAAGTTTGTGTAACACGAGCCCAATGAGTTCAAGGTGTACATGGGCCAC 784
QY 1440 GGAATACACCCGTGGATGCAAAATATTGATGACACC-CAGTATCTCGCAGCAAAAAGAGC 1498
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
785 GGTGGGAAGCCCTGGGTCTCGACTTCAGTCCACCCCTCATTAAGTGGTGGGAGAGAGC 844
QY 1499 GATCAGAACAGTGTGTTGGAAACAGAACAGATATGATCCGGATGGATCCACCATCCAAT 1558
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
845 CATGAAGACAGTGTGTTGGTGTGAGCCAGACTTGACAGGAAAGGGCGGAGTATCCCGT 904
QY 1559 TGCCAAATGTTCCAGAGATCGTCCACAGAGCGTGTCTAATTCGGTGGAGCTGT 1618
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
905 GACCTTGACCTTTCCAGGAGCCAGGGCAAGAACGTCATGCTGCTGTGGGTGAGC 964
QY 1619 TGATGATGGAGACATTTCGAGAAATGAGAAATCAACAGGTGGAACCTACATAGAGGAAC 1678
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
965 GGATGACGGAGGCCACTCCAGAAATGAAAGCTCAACAGGTATAACTACATAGAGGAAC 1024
QY 1679 CAAATTTATTTGTCCT 1695
Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
1025 CAAGATGCTGGCGCGT 1041
```

## RESULT 61

ACC72762

ID ACC72762 standard; cDNA; 2349 BP.

XX

AC ACC72762;

XX

DT 09-JUL-2003 (first entry)

XX

DE Human cancer related protein encoding cDNA SEQ ID NO:101.

XX

XX Human; cancer; diagnosis; screening; modulator; leukaemia; ischaemia;

XX

XX heart disease; atherosclerosis; endometriosis; gene; ss.

XX

OS Homo sapiens.

XX

FN W0203025138-A2.

XX

PD

XX

PF

XX

XX

PR

PR

PR

PR

PR

PR

PR

PR

XX

XX

PA

XX

XX

PI

PI

XX

XX

DR

DR

XX

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PT

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CC

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SQ

SQ

QY

Db

QY

Db

QY

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QY

Db

QY

Db

QY

Db

QY

Db

QY

Db

QY

Db

QY

Db

QY

Db

27-MAR-2003.

17-SEP-2002; 2002WO-US029560.

17-SEP-2001; 2001US-0323469P.

20-SEP-2001; 2001US-0323887P.

13-NOV-2001; 2001US-0350666P.

08-FEB-2002; 2002US-0355145P.

08-FEB-2002; 2002US-0355257P.

12-APR-2002; 2002US-0372246P.

(HOSB-) EOS BIOTECHNOLOGY INC.

Afar D, Aziz N, Gish KC, Hevezi PA, Mack DH, Wilson KE;

Zlotnik A;

WPI; 2003-354600/33.

P-PSDB; ABR58615.

New genes that are up-regulated or down-regulated in cancers, useful as

markers for diagnosing e.g. cancer, ischemia or heart diseases, or as

therapeutic targets for screening drugs for treating these diseases.

Claim 8; Page 677; 767pp; English.

The present invention describes an isolated nucleic acid molecule, which

comprises the sequence of any of the genes that are up-regulated or down-

regulated in specific cancers (e.g. about 1031 genes up-regulated in

acute lymphocytic leukemia). ACC72641 to ACC72860 represent cancer

related gene nucleotide sequences which encode the proteins given in

ABR58521 to ABR58709. Also described: (1) determining the presence or

absence of a pathological cell in a patient; (2) an expression vector

comprising a nucleic acid molecule described above; (3) a host cell

comprising the vector; (4) an isolated polypeptide, which is encoded by

the nucleic acid; (5) an antibody that specifically binds the polypeptide

of (4); (6) specifically targeting a compound to a pathological cell in a

patient by administering to the patient the antibody above; and (7) a

drug screening assay. The nucleic acid is useful as diagnostic markers or

therapeutic targets. In particular, the nucleic acid is useful for

diagnosing a pathology, e.g. cancer (e.g. cancer of the bone marrow,

bladder, brain, breast, cervix, colon/rectum, kidney, lung, ovary,

pancreas, prostate, skin and uterus), wounds, ischaemia, heart diseases,

atherosclerosis and endometriosis. The nucleic acid is also useful in

drug screening, particularly for identifying agents for treating these

pathologies

Sequence 2349 BP; 607 A; 566 C; 640 G; 536 T; 0 U; 0 Other;

Query Match 14.9%; Score 334.8; DB 10; Length 2349;

Best Local Similarity 58.7%; Pred. No. 3.1e-63;

Matches 579; Conservative 0; Mismatches 407; Indels 0; Gaps 0;

754 AAGATCTTCTCTGTAATATCAAAATTCATTTGAGGGATGGAAGAGGTGCTGTTG 813

295 AGGAGATTCCTGTCACGTCGATTCGCTCGAAGGCATGGAGGAGTCAGGCTCTGAG 354

814 CCTGTGAGAACTTGTGAAAAGAAAAGAGCCGATTTCTTCTGTTGTTGACTATG 873

355 GCCTAGACGAGCTGATTTTTCGCCGAAAGACACATTTTAAAGGATGGAAGTATG 414

874 TAATTTTCAGATAAAGCTGTGGATCAGCCAAAGAACCCAGCAATCACTTATGAA 933

415 GCATTTCTGACAAATTAATGCTGGTGGGAAAGAGAGCCCTGCATCACTACGG 974

934 GGAACAGCTACTTCAATGTTGAGGTGAAATCAGAGACCAAGATTTTCACTCAG 993

475 GCATTTGCTACTTTTTCATCGAGGTGAGTGAGCAACAAAGACCTCCATTTCT 534

994 TTGTTGGCATCTTTCATGACCAATGGCTGATCTGTTGCTTCTTCGAGCTG 1053

535 ACGGGGGCTCGGTGTCATGAGGCCATGACTGATCTCAITTTGCTGATGGGTG 594

Qy	1054	ACTCGTCTGGTGCATATCCTGGTCCCTCGGAATCTATGATGAAGTGGTTCCTCTTACAGAAG	1113
Db	595	ACAAGAGGGGGAAACATCTGATCCCCGGCATTAACGAGGGCGTGGCGCGCTACGGAAG	654
Qy	1114	AGGAATAATAATACATACAAAGCCATCCATCTAGACCTAGAGAATAACGGAATAGCAGCC	1173
Db	655	AGGAGCACAGCTGTACGACGACATCGACTTTTGACATAGAGGAGTTTGGCCNAGGATGGG	714
Qy	1174	GGGTTGAGAAATTTCTGTTTCGATACTAAGGAGGAGATTTCTAATGCACCTCTGGAGGTACC	1233
Db	715	GGGCGCAGATCCTCTGCACAGCCACAGAAGAAGACATCCTCATGCACCGATGGCGGTACC	774
Qy	1234	CATCTCTTTTCTATTTCATGGGATCAGAGCGCGTTTGTATGAGCTGGAACTAAACACGTCA	1293
Db	775	CGTCTCTGTCCTCCATGGCATCGAAGGCGCTTCTCTGGTCTGGGGCCAGACCGGTGA	834
Qy	1294	TACTGGCCGAGTTATAGGAAAAATTTTCAATCCGCTAGTGCCTCCATCAATGAATGTGTCG	1353
Db	835	TTCCAGGAAGGTGGTGGCAAGTTCTCCATCAGGCTCGTGCAGAACATGACTCCTGAAG	894
Qy	1354	CGGTGGAATAACAGTGCACGACATCTTGAAGATGTGTTCTCCAAAGAAATAGTTCCA	1413
Db	895	TCGTGGCGAGCGGTCAACAGCTACCTTAACTAAGAAGTTTGTGTAACCTAGCAGCCCCA	954
Qy	1414	ACAGATGGTGTGTTTCCATGACTCTAGGACTACACCGCTGGATTGCAAAATATTGATGACA	1473
Db	955	ATGAGTTCAAGGTGTACATGGGCCACCGTGGGAAGCCCTGGTCTCCGACTTCAGTCACC	1014
Qy	1474	CCNAGTATCTCGCAGCAAAAGACGGATCAGAACAGTGTGTTGGAACAGAACCCAGATATGA	1533
Db	1015	CTCATTAACCTGGCTGGGAGAGAGCCATGAAGACAGTTTTTGGTGTGAGCCAGACTTGA	1074
Qy	1534	TCGGGGATGGATCCACCATTTCCAAATGCCAAAATGTTTCCAGGAGATCGTCCACAAGAGCG	1593
Db	1075	CCAGGAAGCGCGCAGTATTTCCCGTGACCTTGACCTTTCAGGAGGCCACGGGCAAGAAGC	1134
Qy	1594	TGGTGCTAATTCGCTGGGAGCTGTTGATGATGAGAGAACATTCGCAAGATGAGAAAATCA	1653
Db	1135	TCATGCTGCTGCCTGTGGGGTCAAGCGATGACGGAGGCCATCCCAAGATGAAAAGTCA	1194
Qy	1654	ACAGTGGAACTACATAGAGGGAACCAATTTATTTGCTGCTCTTTTCTTAGAGATGGCCC	1713
Db	1195	ACAGGTATAACTACATAGAGGGAACCAAGATGCTGGCGGACTCTGTATGAGGTCTCCC	1254
Qy	1714	AGTCCAAATTAATCAAGAAGACCTTCT	1739
Db	1255	AGCTGAAGGACTAGGCCAAGCCCTCT	1280

RESULT 62

Query Match	14.5%;	Score 325.6;	DB 3;	Length 1185;	
Best Local Similarity	58.9%;	Pred. No. 2.6e-61;			
Matches 581;	Conservative 0;	Mismatches 399;	Indels 6;	Gaps 1;	
<hr/>					
QY	351	CAGACGCTGAAGGAGTGGTGCCATCGAGAGGACTCTGTCCAGCGCTGTGCCTCGCTTC	410		
DB	205	CAGAACTCGCAAAATGGTGGCTATCCAGAGTGTGTCTGCTGGCGCGAG-----AAG	258		
QY	411	AGACAAGAGCTTTTCAGAAATGATGCCGTGGCTGCCGACACCGTGCAGCGCCTGGGGGCC	470		
DB	259	AGAGCGAAATCAGAGGATGATGGAAGTTGCTGCTGCAGATGTTAACGAGTTGGGGGGC	318		
QY	471	CGTGTGGGCTCGGTGGACATGGGTCCTCAGCAGCTGCCCATGGTCAGAGCTTCCAATA	530		
DB	319	TCTGTGGAACTGGTGGATATCGGNAACAAGAAGCTCCCTGATGGCTCGGAGATCCCGCTC	378		
QY	531	CCTCCGCTCATCTCTGGCGAACTCGGGAGGCGATCCCCAGAAAGCCACCGTGTGCTTCTAC	590		
DB	379	CCTCCTATTCTGCTCGGCAGGCTGGGCTCCGACCACAGAGAAGACCGGTGTGCATTTAC	438		
QY	591	GGCACTTTGGACGTGCAGCCTGTGTGACCGGGGGCGATGGGTGGCTCACGGACCCCTATGTG	650		
DB	439	GGGCACCTTGGATGTGCAGCCTTGCAGCCCTCGAGAGCGGCTTGGACAGACGACGAGCCCTTCAAC	498		
<hr/>					
Human ORFX ORF2636 polynucleotide sequence SEQ ID NO:5271.					
XX	08-FEB-2001	(first entry)			
XX					
XX					
XX					
KW	Human; open reading frame; ORFX; detection; cytostatic; hepatotropic;				
KW	vulnary; antipsoriatic; antiparkinsonian; nootropic; neuroprotective;				
KW	anticonvulsant; osteopathic; antiarthritic; immunosuppressant; cardiac;				
KW	immunosilulant; thrombolytic; coagulant; vasotropic; antidiabetic;				
KW	hypotensive; dermatological; immunosuppressive; antiinflammatory;				
KW	antiviral; antibacterial; antifungal; antirheumatic; antithyroid;				
KW	antianaemic; gene therapy; cancer; proliferative disorder; hypertension;				
KW	neurodegenerative disorder; osteoarthritis; graft vs host disease;				
KW	cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;				
KW	cholesterol ester storage; systemic lupus erythematosus; infection;				
KW	severe combined immunodeficiency; malaria; autoimmune disorder; asthma;				
KW	allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;				
KW	bone damage; cartilage damage; antiinflammatory disease; coagulation;				
KW	thrombosis; contraceptive; ss.				

```
QY 651 CTGACGAGGTAGACGGGAACTTTATGACGAGGAGCGACGACAAAGAGCCCTGTC 710
DB 499 CTGGTGGAGCGACGACGAAGCTGTATGGGAGAGGTTCCGACTGATGATAAGGCGCGGTG 558
QY 711 TTGGCTTGGATCAATCTGTGAGCGCTTCAGAGCCCTGAGCAAGATCTTCTGTGAAT 770
DB 559 GCCGGCTGGATAAAGCCCTTGAAGCGTATCAGAAAACAGGCGAGAGATTCTGTCAAC 618
QY 771 ATCAAAATTCATATTGAGGCGATGAGAGCGCTCTGTGCTCCCTGGAGGAATTTGTG 830
DB 619 GTCCGATTCCTCGAAGSCATGAGGAGTCAAGGCTCTGAGGCGCTAGACGAGCTGATT 678
QY 831 GAAAAAGAAAGGACCGATTCCTCTGTGTGAGCTACATTGTAATTTTCAGTAACCTG 890
DB 679 TTTGCCCGGAAGACACATTTTAAAGGATGTGACTATGTCTGCAATTTCTGCAATTAC 738
QY 891 TGGATCAGCCAAAGGAGCGACCAATCATTATGGAACCGGGGAAACAGTACTTTCATG 950
DB 739 TGGCTGGGAAAGAAAGCCCTGATCAGCTACCTGAGGCTCAGGGGCGATTGCTACTTTTC 798
QY 951 GTGAGGTGAATTCGAGACCGAGATTTTCACTCAGGAACCTTTTGGTGCCATCTTCAT 1010
DB 799 ATCGAGGTGAGTGACGACAAAGACCTCATTCTGGGTGTACGGGGGCTCGGTGCAT 858
QY 1011 GAACCAATGGCTGATCTGGTGTCTCTCTCGGTAGCTGTGAGCTGCTGTGTCATATC 1070
DB 859 GAGGCCATGACTGATCTCATTTTGTGTGANGGCTCTTTTGGTGACAAAGAGGGGAAACATC 918
QY 1071 CTGTCTCCTGGAATCTATGATGAAGTGTTTCTCTTACAGAGAGGAAATAAATACATAC 1130
DB 919 CTGATCCCCGGCATTAACGAGGCGGTGGCCGCTCAGCGAAGAGGACACAGCTGTAC 978
QY 1131 AAAGCCATCATCTAGACCTTAGAAGAAATACCGGAATAGACGCGGTTGAGAAATTTCTG 1190
DB 979 GACGACATCGACTTTGACATAGAGGAGTTTGCACAGGATGTGGGGGCGCAGATCCTCCTG 1038
QY 1191 TTGATACTAAGGAGGATTTCTAATGACCTCTGGAGGTACCATCTCTTTCTATTTCAT 1250
DB 1039 CACAGCCACAAAGAACATCTCTATGACCCGATGCGGGTACCCGCTCTGTCCCTCCAT 1098
QY 1251 GGGATCGAGGCGCGTTTGTATGAGCCTGGAACCTAAACAGTACATACCTGCGCGAGTTATA 1310
DB 1099 GGCATCGAAGGCGCTTCTCTGGTCTGGGCGCAAGACCGTGATTCCTCCAAAAGGTGTT 1158
QY 1311 GGAATAATTTCAATCCCTCTAGTCCC 1336
DB 1159 GGCAAGTTCTCCATCAGGCTCGTGCC 1184

RESULT 63
AAH14097
ID AAH14097 standard; cDNA; 2005 BP.
XX
AC AAH14097;
XX
XX
DT 26-JUN-2001 (first entry)
XX
DE Human cDNA sequence SEQ ID NO:11267.
XX
XX Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
XX
XX Homo sapiens.
XX
XX EP1074617-A2.
XX
XX 07-FEB-2001.
XX
XX 28-JUL-2000; 2000EP-00116126.
XX
XX 29-JUL-1999; 99JP-00248036.
XX
XX 27-AUG-1999; 99JP-00300253.
XX
XX 11-JAN-2000; 2000JP-00118776.
XX
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```
PR 02-MAY-2000; 2000JP-00183767.
PR 09-JUN-2000; 2000JP-00241899.
PA (HELI-) HELIX RES INST.
XX
PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
XX
XX WPI; 2001-318749/34.
XX
PT Primer sets for synthesizing polynucleotides, particularly the 5602 full-
PT length cDNAs defined in the specification, and for the detection and/or
PT diagnosis of the abnormality of the proteins encoded by the full-length
PT cDNAs.
XX
PS Claim 8; SEQ ID NO 11267; 2537pp + Sequence Listing; English.
XX
CC The present invention describes primer sets for synthesizing 5602 full-
CC length cDNAs defined in the specification. Where a primer set comprises:
CC (a) an oligo-dT primer and an oligonucleotide complementary to the
CC complementary strand of a polynucleotide which comprises one of the 5602
CC nucleotide sequences defined in the specification, where the
CC oligonucleotide comprises at least 15 nucleotides; or (b) a combination
CC of an oligonucleotide comprising a sequence complementary to the
CC complementary strand of a polynucleotide which comprises a 5'-end
CC sequence and an oligonucleotide comprising a sequence complementary to a
CC polynucleotide which comprises a 3'-end sequence, where the
CC oligonucleotide comprises at least 15 nucleotides and the combination of
CC the 5'-end sequence/3'-end sequence is selected from those defined in the
CC specification. The primer sets can be used in antisense therapy and in
CC gene therapy. The primers are useful for synthesizing polynucleotides,
CC particularly full-length cDNAs. The primers are also useful for the
CC detection and/or diagnosis of the abnormality of the proteins encoded by
CC the full-length cDNAs. The primers allow obtaining of the full-length
CC cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
CC AAH13633 to AAH18742 represent human cDNA sequences; AAH92446 to AAH95893
CC represent human amino acid sequences; and AAH13629 to AAH13632 represent
CC oligonucleotides, all of which are used in the exemplification of the
CC present invention
XX
SQ Sequence 2005 BP; 496 A; 498 C; 547 G; 464 T; 0 U; 0 Other;
```

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Query Match 14.5%; Score 325.6; DB 4; Length 2005;
Best Local Similarity 58.6%; Pred. No. 3.1e-61;
Matches 565; Conservative 0; Mismatches 399; Indels 0; Gaps 0;
```

```
QY 776 ATTCATCATGAGGGATCGAAGAGCTGGCTCTGTTCCCTGGAGGAACCTGTGAAAA 835
DB 1 ATTCCTGCTCGAAGGCATCGAGGATCGAGCTCTGAGGGCCCTAGACGACTGATTTTGC 60
QY 836 AGAAAAGGACCGATTCTCTCTGGTGTGACTACATTTGTAATTTCAAGTAACCTGTGGAT 895
DB 61 CCGGAAGACACATCTTTAAGATGTGGACTATGTCTGCAATTTCTGACAAATTAATGGCT 120
QY 896 CAGCCAAAGGAAGCCAGCAATCACTTATGGAACCCGGGGGAACAGTACTTCAATGTGGA 955
DB 121 GGGAAAGAAAGAGCCCTGTCATCACCTACCGCCCTCAGGGGCAATTTGCTACTTTTCATCGA 180
QY 956 GGTGAATTCAGAGACCGAGATTTTCACTCAGGAACCTTTTGGTGGGATCTCTTCATGAACC 1015
DB 181 GGTGGAGTGAGCAACAAAGACCTCCATTTGGGGTGTACGGGGGCTCGGTGATGAGGC 240
QY 1016 AATGGCTGATCTGGTTGCTCTTCTCGGTAGCCCTGGTAGACTCGTCTGGGTCAATCTCTGGT 1075
DB 241 CATGACTGATCTCATTTTGTCTGATGGCTCTTTTGGTGGACAGAGGGGGAACATCTCTGAT 300
QY 1076 CCTTGAATCTATGATGAAGTGTCTCTTACAGAGAGGAATAAATACATACAAAGC 1135
DB 301 CCCCGGCAITTAACGAGCGCTGGCCCGCTCACGGAAGAGGAGCACAAGCTGTACGACGA 360
QY 1136 CATCCATCTAGACCTAGAAAGATACCGGAATAGCAGCCGGTTTGAAGAAATTTCTGTTCGA 1195
DB 361 CATCGACTTTGACATAGAGAGTTTCCCAAGGATGTGGGGGCGCAGATCTCTCTGACAG 420
```



1233 CCATCTCTTTCTATTATTCATGGGATCGAGGGCGGCTTTCATGAGCTCGTGAATATAAAGCAGTC 1292  
949 CCTTCGTTGTCATTCATGGTGTGAAGGGCGCTTTTCCGCTCAAGTGTCAAGACTGTC 1008  
1293 ATACTGGCCGAGTTATAGGAAATTTTCAATCGCTAGTCTCCTCAATGAATGTGTCT 1352  
1009 ATTCAGCTAAGGTCTTCGGTAAAGTTTTCATTAAGAACCCGCTCCCGACATGGATCTGAG 1068  
1353 GCGGTGGAACACAGGTGACACGACATCTTGAAGATGTGTTCTCCAAAGAAATAGTTC 1412  
1069 AAATGACCTTTGGTCCAGAGCATGTGTGATGCCAAATTCGAATCTCTTCA 1128  
1413 AACAAAGATGGTTGTTCCATGACTCTAGGACTACACCCGCTGGATTCGAAATATGATGAC 1472  
1129 AACAAAGTGCAGACAGAAATGATCCATGATGGTCTTATGGGTTTCTGATCATCAAC 1188  
1473 ACCAGTATCTCGCAGCAAAAGAGCGATCAGAACAGTGTGTTGGAACAGAACAGATATG 1532  
1189 GCCCAATTTACTGCTGCTAAAAAGGCCACAAACTGCTATGCTGATGCTGATCCTGATTT 1248  
1533 ATCCGGGATGATCCACCATTCGAATTCGCAAAATGTTCCAGGAGATCGTCCACAGAGC 1592  
1249 ACCAGGAAGTGGTTCATCTCTATCACTTTGACTTTTCAAGATGCTTTGAACACATG 1308  
1593 GTGTGCTAAATTCGCTGGGAGCTGTGATGATGGAGAAATTCGACGAATGAGAAATC 1652  
1309 GTCTTATGCTGCAATGGGTAGAGCGGATGATGGTCTCATTCATCAATCAATGAAAGTTA 1368  
1653 AACAGGTGGAATCATAGAGGGAACCAAAATTTGCTGCTGCTTTT 1699  
1369 GATATTTCAAATTTTGTGGTGTATGAGACGATGCTGCTTACTT 1415

RESULT 65  
ADK62621

ID ADK62621 standard; DNA; 1446 BP.  
XX AC  
XX ADK62621;  
DT 06-MAY-2004 (first entry)  
DE Disease treating protein complex-derived gene #436.  
DE protein complex; drug target; diagnosis; gene; ds.  
XX Unidentified.  
XX EF1338608-A2.  
XX 27-AUG-2003.  
XX 20-DEC-2002; 2002EP-00102902.  
XX 20-DEC-2001; 2001EP-00130253.  
XX (CELL-) CELLZOME AG.  
XX Bauer A, Gavin A, Superti-Furga G, Kuester B, Schultz J;  
XX Marzloch M, Grandi P, Krause R, Kruse U, Merino A, Bauch A;  
XX Michon A, Leutwein C, Rick J;  
XX WPI; 2003-638460/61.  
XX P-PSDB; ADK62620.  
XX  
XX New proteins and protein complexes from eukaryotes, useful as targets in  
XX drug screening, or in diagnosing or screening for the presence of a  
XX disease or disorder, or a predisposition for developing a disease or  
XX disorder in a subject.  
XX Disclosure; SEQ ID NO 872; 13pp; English.  
XX  
XX The invention relates to novel protein complexes comprising a first and a  
XX second protein, or its derivative, fragment, homologue or variant. The

CC proteins are selected from given protein complexes, which are not defined  
CC in the specification. The variants are encoded by nucleic acids that  
CC hybridize to the nucleic acids encoding the proteins under low stringency  
CC conditions. The protein complexes are useful as targets for an active  
CC agent of a pharmaceutical. These protein complexes are particularly  
CC useful as drug targets for the treatment or preventing of a disease or  
CC disorder. The complexes and methods above are useful in diagnosing or  
CC screening for the presence of a disease or disorder or a predisposition  
CC for developing a disease or disorder in a subject. These are also useful  
CC in screening for a drug for treatment or prevention of a disease or  
CC disorder. The molecule that modulates the amount, activity or protein  
CC components of the complex is useful for the manufacture of a medicament  
CC for the treatment or prevention of a disease or disorder. This sequence  
CC corresponds to a gene of the invention. (Note: the sequence data for this  
CC patent did not form part of the printed specification but was obtained  
CC from the EPO in electronic format).  
XX  
SQ Sequence 1446 BP; 392 A; 295 C; 325 G; 434 T; 0 U; 0 Other;  
Query Match 13.6%; Score 304.2; DB 10; Length 1446;  
Best Local Similarity 54.2%; Pred. No. 1.4e-56;  
Matches 643; Conservative 0; Mismatches 538; Indels 6; Gaps 1;  
QY 519 AGTCTTCCAAATACCTCCCGTCATCTCGGCCGAACTGGGGAGCGCATCCCAAGAAAGCACC 578  
DB 229 AATCTGCTCTACCTCCTGTGATTCGTCTAGTTCGGCAGCGACCTTCAAAAAGACT 288  
QY 579 GTGTGCTTCTACGGCCACTTTGGACGTGACGCTGTGACGGGGGCGATGGGTGCTCAG 638  
DB 289 GTGTGCTTACGGTCACTATGATGCAACCTGCTCAATTCGAAGATGGTTGGGATAC 348  
QY 639 GACCCCT-----ATGCTGCTGACGGGTAGACGGGAACTTTATGGACGAGCGACC 592  
DB 349 GAGCCATTCAGCTTGTCAATGATGAGGCTAAGGTATCATGAAGGAAGGGGTGTCA 408  
QY 693 GACAAAGAGCCCTGTCTTGGCTTGGATCAATGTGTGAGCGCCTTCAGAGCCCTGGAG 752  
DB 409 GATGACACTGGTCCCTTATATCTTGGATTACGTTTGGACGCTTCAAGSCCTCCGA 468  
QY 753 CAAGATCTCTGTGAATATCAATTCATCTAGGGGATGGAAGAGCTGGCTCTGT 812  
DB 469 CAAGAAATTCCTGTTAACTTAGTTACTTGTTCGAAGGAATGGAGGAAAGTGTCTTTG 528  
QY 813 GCCCTGGAGAACTTGTGGAAGAAAGAAAGGACCACTTCTCTGCTGTGACTACATT 872  
DB 529 AAATTTGATGAATTCATTAAGAAAGAGCTAATGTGTACTTTAAAGGTGTAGATGCCGT 588  
QY 873 GTAATTTAGATPAACCTGTGGATCAGCAAGAAAGGACCAATCACTTATGGAACCCGG 932  
DB 589 TGTATTTCCGATAATTAATCTGGCTAGGCCTAAGAGCCCTGTTTGTGACTTATGGTCTAAGA 648  
QY 933 GGAACAGCTACTTCTATGTTGGAGTGAATGACAGACAGGATTTTCACTCAGAAC 992  
DB 649 GGTTCACACTACTATCAAAACCATCATTTGAGGCTCAAGTGCAGATTTACCTCTGCTATC 708  
QY 993 TTTGTGGCATCCTTTCATGAACCAATGCTGATCTGTTGCTTCTCTCGTAGCTGTGTA 1052  
DB 709 TTTGTGGTGTGTTGCTGAAACCAATGATCGAATTAATGCAAGTCTCGTGTCCCTTGTG 768  
QY 1053 GACTCGTCTGTGTCATCTGCTCCCTGGAATCTATGATGAAGTGGTTCCTCTTACAGAA 1112  
DB 769 GATTCCTAAGGGTAAAGTCTGATTCAGCGTATTCAGGAAATGGTGTGCTCTCTAACCAGAA 828  
QY 1113 GAGGAATAATATACATACAAAGCCATCCATCTAGACCTAGAGATACGGGATAGCAGC 1172  
DB 829 AAGGAGAGAGGCTCTATACAGGATATCGAATTTAGCGTCGAAGATTTGAACGCTCAACT 888  
QY 1173 CGGGTTGAGAAATTTCTGTCGATCTAAGGAGGAGATTTAAATGCACTCTCGGAGGTAC 1232  
DB 889 GGTCTAGACACAGTTTGTACGACAAAGAGAGACATCTTGATGCAAGATGGAGGTAT 948  
QY 1233 CCATCTCTTCTATTCATGGGATCGAGGGCGGTTTGTATGAGCTCGTGAATATAAAGCAGTC 1292

Db 949 CCTCTGTTGTCATTCATGTTGGAAGGCGCTTTTCCTGCAAGTGCAAGACTGTC 1008  
Qy 1293 ATACTGCCCGAGTATAGGAATTTTCAATCGTCTAGTCCCTCCATGAATGTCT 1352  
Db 1009 ATTCAGCTAAGGCTTCGGTAAGTTTTCATTTAGAACCGTCCCGACATGGATTCTGAG 1068  
Qy 1353 CGGTTGGAANAACAGGTGACACGACATCTTGAAGATGTGTTCTCCAAAGAAATAGTTCC 1412  
Db 1069 AAATGACCTCTTTGGTCCAGAGCATTTGTGATGCCAAATTCAGTCTTGAATCTCCA 1128  
Qy 1413 AACAGATGGTTGTTTCCATGACTCTAGGACTACACCGTGATGCAATATTGATGAC 1472  
Db 1129 AACAAAGTSCAGACAGAAATTCATCATGATGATGCTTATTTGGGTTCTGTATCCATTCAAC 1188  
Qy 1473 ACCAGTATCTCGCAGCAAAAGAGCGATCAGACAGTGTGTTGGAACAGAACACAGATATG 1532  
Db 1189 GCCAAATTAATGCTGCTTAAAGGCCCAAACTGGTCTATGTTGATGCTCTGATTTT 1248  
Qy 1533 ATCCGGGATGGATCCACATTCCTCAATTCCTTCAAGATGTTTCCAGGAGATGTTCCAAAGAGC 1592  
Db 1249 ACCAGGAAGTGTTCCTATCTTATCTTCAAGATGCTTGAACACTAGT 1308  
Qy 1593 GTGTTGCTAATTCGCTGGAGCTGTTGATGATGAGAACATTCGCAAGATGAGAAATC 1652  
Db 1309 GTCTTATGCTGCCAATGGGTAGAGCGGATGATGCTCATTCATCAATCAATGAAAGTTA 1368  
Qy 1653 AACAGTGGAATACATAGAGGGAACCAAAATTTATTTGCTGCTTTT 1699  
Db 1369 GATATTTCAAATTTTGGTGGTATGAGACGATGGCTGCTTACTT 1415

RESULT 66  
AAC09875  
ID AAC09875 standard; cDNA; 300 BP.  
XX AAC09875;  
AC AAC09875;  
DT 06-OCT-2000 (first entry)  
XX Human secreted protein 5' EST, SEQ ID NO: 13950.  
DE Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;  
XX gene therapy; chromosome mapping; ss.  
XX Homo sapiens.  
XX EP1033401-A2.  
XX 06-SEP-2000.  
XX 21-FEB-2000; 2000EP-00200610.  
XX 26-FEB-1999; 99US-0122487P.  
XX (GSEST) GENSET.  
XX Dumas Milne Edwards J, Duclert A, Giordano J;  
XX WPI; 2000-500381/45.  
XX New nucleic acid that is a 5' expressed sequence tag (5' EST) for  
PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for  
PT diagnostic, forensic, gene therapy and chromosome mapping procedures.  
XX Claim 1; SEQ ID NO 13950; 71pp + Sequence Listing; English.

CC The present sequence is one of a large number of 5' ESTs derived from  
CC mRNAs encoding secreted proteins. No ORF has yet been conclusively  
CC identified within the present sequence. The 5' ESTs were prepared from  
CC total human RNAs or polyA+ RNAs derived from 30 different tissues. EST  
CC sequences usually correspond mainly to the 3' untranslated region (UTR)  
CC of the mRNA because they are often obtained from oligo-dT primed cDNA  
CC libraries. Such ESTs are not well suited for isolating cDNA sequences

CC derived from the 5' ends of mRNAs and even in those cases where longer  
CC cDNA sequences have been obtained, the full 5' UTR is rarely included. 5'  
CC ESTs are derived from mRNAs with intact 5' ends and can therefore be used  
CC to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in  
CC diagnostic, forensic, gene therapy and chromosome mapping procedures.  
CC They are used to obtain upstream regulatory sequences and to design  
CC expression and secretion vectors

SQ Sequence 300 BP; 56 A; 88 C; 77 G; 75 T; 0 U; 4 Other;

Query Match 13.1%; Score 292.8; DB 3; Length 300;  
Best Local Similarity 98.3%; Pred. No. 2.7e-54;  
Matches 291; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GAATGAATACCTCCGAGCGCTTTGTTCTCCAGATGTAATAGTCCACTATACCAGCC 60  
Db 5 GARTGAATACCTCCGAGCGCTTTGTTCTCCAGATGTAATAGTCCACTATACCAGCC 64  
Qy 61 TCCTCTTTCTTCCGGGGGCAACGTTGGTTCAGGCGACAGAGAGATATTTATGTCAACCCT 120  
Db 65 TCRWMTTCTTCCGGGGGCAACGTTGGTTCAGGCGACAGAGAGATATTTATGTCAACCCT 124  
Qy 121 CTGCGGCTTTTCATGGGACTCCCTCTGCCACATTTTTCGAGGTTGGAAAGTTGCTAGA 180  
Db 125 CTGCGGCTTTTCATGGGACTCCCTCTGCCACATTTTTCGAGGTTGGAAAGTTGCTAGA 184  
Qy 181 GGCTTCAGAACTCCAGCTTAATGGATCCAAACTCGGGGAGAAATGGCTCCCTGCTGG 240  
Db 185 GGCTTCAGAACTCCAGCTTAATGGATCCAAACTCGGGGAGAAATGGCTCCCTGCTGG 244  
Qy 241 CTGTGCTGCTGCTGCTGCTGAGCGGCGATGTTCTCTCACCCTCCCGCCCCCG 296  
Db 245 CTGTGCTGCTGCTGCTGCTGAGCGGCGATGTTCTCTCACCCTCCCGCCCCCG 300

RESULT 67  
AAH14944  
ID AAH14944 standard; cDNA; 1920 BP.  
XX AAH14944;  
AC AAH14944;  
DT 26-JUN-2001 (first entry)  
XX Human cDNA sequence SEQ ID NO:12848.  
DE Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.  
XX Homo sapiens.  
XX EP1074617-A2.  
XX 07-FEB-2001.  
XX 28-JUL-2000; 2000EP-00116126.  
XX 29-JUL-1999; 99JP-00248036.  
XX 27-AUG-1999; 99JP-00300253.  
XX 11-JAN-2000; 2000JP-00118776.  
XX 02-MAY-2000; 2000JP-00183767.  
XX 09-JUN-2000; 2000JP-00241899.  
XX (HELI-) HELIX RES INST.  
XX Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;  
PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;  
XX WPI; 2001-318749/34.  
XX Primer sets for synthesizing polynucleotides, particularly the 5602 full-  
XX length cDNAs defined in the specification, and for the detection and/or  
XX diagnosis of the abnormality of the proteins encoded by the full-length  
XX cDNAs.



PS Claim 8; SEQ ID NO 12848; 2537pp + Sequence Listing; English.

XX The present invention describes primer sets for synthesizing 5602 full-length cDNAs defined in the specification. Where a primer set comprises: (a) an oligo-dT primer and an oligonucleotide complementary to the complementary strand of a polynucleotide which comprises a 5'-end nucleotide sequence defined in the specification, where the oligonucleotide comprises at least 15 nucleotides; or (b) a combination of an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises a 5'-end sequence and an oligonucleotide comprising a sequence complementary to a polynucleotide which comprises a 3'-end sequence, where the oligonucleotide comprises at least 15 nucleotides and the combination of the 5'-end sequence/3'-end sequence is selected from those defined in the specification. The primer sets can be used in antisense therapy and in gene therapy. The primers are useful for synthesizing polynucleotides, particularly full-length cDNAs. The primers are also useful for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs. The primers allow obtaining of the full-length cDNAs easily without any specialised methods. AAH03166 to AAH13628 and AAH13633 to AAH18742 represent human cDNA sequences; AAH92446 to AAH95893 represent human amino acid sequences; and AAH13629 to AAH13632 represent oligonucleotides, all of which are used in the exemplification of the present invention

XX SQ Sequence 1920 BP; 476 A; 480 C; 520 G; 444 T; 0 U; 0 Other;

Query Match 12.5%; Score 281; DB 4; Length 1920;  
Best Local Similarity 58.2%; Pred. No. 1.9e-51;  
Matches 512; Conservative 0; Mismatches 365; Indels 2; Gaps 1;

QY 863 GGACTACATTGTAATTTTCAGATACCTGTGATCAGCCAAAGGAGGACGACATCACTTA 922  
DB 1 GGACTATGTCGATTTCTGCAATTAATCTGCTGGGAAAGAAAGCCCTGCACTACCTA 60

QY 923 TGGAAACCCGGGGGAAACAGCTACTTTCATGCTGGAGGTGAAATGCAGAGACCCAGGATTTCA 982  
DB 61 CGGCCTCAGGGCATTGCTACTTTTCATCGAGGTGGAGTCAGCAACAAAGACCTCCA 120

QY 983 CTCAGGAACCTTTGGTGGGATCCTTCATGAACCAATGGCTGATCTGGTCTCTTCGG 1042  
DB 121 TTTCTGGGTGTACGGGGGCTCGGTGCATGAGGCCATGACTGATCTCATTTTGTGTGG 180

QY 1043 TAGCCTGGTAGCTCGTCTGTCATATCTGTGCTCCCTGGGAATCTATGATGAAGTGTTC 1102  
DB 181 CTCTTTGGTGGCAAGAGGGGGACATCTCTGATCCCCGGGCAATTAACGAGGCCATGCCGC 240

QY 1103 TCTTACAGAA--GAGGAATAAATACATACAAAGCCATCCATCTAGACCTAGAGAATAC 1160  
DB 241 CGTCACGGAATCAGGAGCAAGCTGTACGACGACATCGACTTTGACATAGAGGATTT 300

QY 1161 CGGAATAGCAGCCGGTGGAGAAATTTCTGTCATCTAAGGAGGATTTCTAATGCAC 1220  
DB 301 GCCAAGGATGTGGGGCGCAGATCTCTCTGCACAGCCACAAAGAACATCTCTCATGCAC 360

QY 1221 CTCTGGAGGTACCATCTCTTTTATTCATGGGATCGAGGGCGGTTTGATGAGCCTGGA 1280  
DB 361 CGATGGCGGTACCGTCTCTGCTCCCTCAATGGCATCGAAGGCCCTTCTCTGGGTGGG 420

QY 1281 ACTAAACAGTCATATCTGCGCGGATTAAGGAAATTTTCAATCCGTCTAGTCCCTCAC 1340  
DB 421 GCCAAGACCGGTGATTTCCAGGAAGGTGGTGGCAAGTTCTCCATCAGGCTCGTGGCAAC 480

QY 1341 ATGAATGTGTCTCGGTGGAAACAGGTGCACAGCATCTTGAAGATGTGTTCTCAA 1400  
DB 481 ATGACTCTGAAGTCTGTCGGCGAGGTGACAGGTACCTAATGAAGTTGTCTGAA 540

QY 1401 AGAAATAGTTCCAAAGATGGTGTGTTTTCATGACTCTAGGACTACACCCGTGGATGCA 1460  
DB 541 CTACGAGCCCAATGAGTTCAAGGTGTACATGGCCACGGTGGGAGCCCTGGTCTCC 600

QY 1461 AATATTGATGACACCCGATCTCGCGCAAAAGAGCGGATCAGACAGTGTGTTGAAACA 1520

DB 601 GACTTCAGTCAACCTCATTTACCTGGCTGGAGAGGACCATGAGGACAGTCTTTTGGTGT 660

QY 1521 GAACCAATATGATCCGGGATGATCCACCATTTCCAAATTCGCAAAATGTCAGGAGATC 1580  
DB 661 GAGCCAGACTTGACCAAGGAAGCGGCGAGTATTTCCCGTGACCTTGACCTTTTTCAGGAGGCC 720

QY 1581 GTCCACAAGCGGTGGTGTCTAATTCCTCGCTGGGAGCTGTTGATGATGAGACATTCGCAG 1640  
DB 721 ACGGGCAAGAACGTCATGCTGCTGCTGGGGTTCAGCGGATGACGAGCCCACTCCAG 780

QY 1641 AATGCAAAATCAACAGGTGGAACTACATAGAGGGAACCAAAATTAATTTGCTGCTTTTTC 1700  
DB 781 AATGAAAAGCTCAACAGGTATTAATACTACATAGAGGGAACCAAGATGCTGGCCGGTACCTG 840

QY 1701 TTAGAGATGGCCAGCTCCATTAATCACAAGAACCTTCT 1739  
DB 841 TATGAGGTCTCCAGCTGAAGGACTAGGCCAAGCCCTCT 879

RESULT 68  
ABLI18866/C  
ID ABLI18866 standard; DNA; 3538 BP.  
XX AC ABLI18866;  
XX DT 26-MAR-2002 (first entry)  
XX DE Drosophila melanogaster genomic polynucleotide SEQ ID NO 8071.  
XX KW Drosophila; developmental biology; cell signalling; insecticide;  
XX KW pharmaceutical; gene; ds.  
XX OS Drosophila melanogaster.  
XX PN WO200171042-A2.  
XX PD 27-SEP-2001.  
XX PF 23-MAR-2001; 2001WO-US009231.  
XX PR 23-MAR-2000; 2000US-0191637P.  
XX PR 11-JUL-2000; 2000US-00614150.  
XX PA (PEKE ) PE CORP NY.  
XX PI Venter JC, Adams M, Li PWD, Myers EW;  
XX WPI; 2001-656860/75.  
XX PT New isolated nucleic acid detection reagent for detecting 1000 or more genes from Drosophila and for elucidating cell signalling and cell-cell interactions.  
XX PS Claim 1; SEQ ID NO 8071; 21pp + Sequence Listing; English.  
XX CC The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention is useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutic and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABLI16176-ABLI30511), expressed DNA sequences (ABLI01840-ABLI16175) and the encoded proteins (ABB57737-ABB72072). The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequences

XX SQ Sequence 3538 BP; 1035 A; 723 C; 651 G; 1129 T; 0 U; 0 Other;

Query Match 10.0%; Score 224.2; DB 4; Length 3538;  
Best Local Similarity 58.0%; Pred. No. 6.6e-19;  
Matches 397; Conservative 0; Mismatches 288; Indels 0; Gaps 0;

QY 412 GACAAAGAGCTCTTCAGAAATGATGGCTGGTGGTGGGACACAGCTGCAGCGCTGGGGGCC 471

```
Db 2456 GAGCGAGATCGTCTGATGTAATGGAATGCGCGGATCGCTGAGGTCTCTGGGCGCG 2397
Qy 472 GTGTGGCTCGGTGGACATGGTCTCAGCAGCTGCGCGATGGTTCAGAGTCTTCCATAC 531
Db 2396 AGACAGAGCTGGCAGATGTGGTTCAGCAGATTTTCCGGAACGGCAGATTATACCTCTAC 2337
Qy 532 CTCCCGTCATCTCGGCCGAACTGGGGAGCGGATCCACGAAGGACCGGTGCTTCTACG 591
Db 2336 CAAAGTTCCTGGGAATTTGGGCAAGACCCCTCTAAGAAGCCGTGTGCTCTATG 2277
Qy 592 GCCACTTGGACGTGAGCCTCTGACCGGGCGGATGGGTGGCTCAGGAACCCCTATGTGC 651
Db 2276 GTCAATTTGGATGTGACGCCCTTGAAGGAAGATGGATGGAACACCAATCCCTTTGAGC 2217
Qy 652 TGACGGAGGTAGACGGGAACCTTTATGACGAGGCGGACCGACCAACAAAGCCCTGTCT 711
Db 2216 TTACAGAGGTGGATGGAATACTGTTGACCGGGGATCCGACGAAGGACCTGTTC 2157
Qy 712 TGGCTTGGATCAATGCTGTGAGCGCTTCAGAGCCCTGAGCAAGATCTTCTCTGTAATA 771
Db 2156 TGTCTGGATCCAGCTATCGAAGCTTATCAGAAGCTCAACTTGCCTGCTGATG 2097
Qy 772 TCAAAATCATTTGAGGGATGGAAGAGGCTGCTCTGTTGCCCTGGAGAACTTGTGG 831
Db 2096 TTAATTCGTATTTGAGGGAATGGAAGAAAGCGGACGAGAGGCTCGATGACTTGTAT 2037
Qy 832 AAAAGAAAGGACCGATCTTCTCTGTTGGTGGACTACATTTGTAATTCAGATAACCTGT 891
Db 2036 TGGAACTGTAAGATAAATTTCTTAGCGGATGTTGATTTTGTGATATCCGATAACTACT 1977
Qy 892 GGATCAGCAAGGAAGCCAGCAATCACTTATGAAACCGGGGGAAACAGCTACTTTCATGG 951
Db 1976 GGCTTGGAAAAAAGCCCTTGCCTCAGATATGGCTTGGCGGTTTGGCATCTTCAAG 1917
Qy 952 TGGAGGTGAAATGACAGACACGAGATTTTCACTCAGGAACCTTTGGTGGCATCTTCATG 1011
Db 1916 TGGAGGTGGAATGCTCCAGCAAGACTTGCATAGTGGAGTTTGGGGGTACAGTTCACG 1857
Qy 1012 AACCAATGGCTGATCTGTTGCTCTTCTCGTAGCCTGTTAGACTCTGCTGGTCATATCC 1071
Db 1856 AAGCAATGCCGGAATCTGTGTCATTTGCTGAGCATCTTGTGATAAAGATACAAATATCC 1797
Qy 1072 TGGTCCCTGGAATCTATGATGAAGT 1096
Db 1796 TAGTCCCTGGTGGATCGCACT 1772
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## RESULT 69

```
ABLI8870/c
ABLI8870 standard; DNA; 4027 BP.
XX
AC ABLI8870;
XX
XX
DT 26-MAR-2002 (first entry)
XX
XX Drosophila melanogaster genomic polynucleotide SEQ ID NO 8083.
XX
XX Drosophila; developmental biology; cell signalling; insecticide;
XX pharmaceutical; gene; ds.
XX
XX Drosophila melanogaster.
XX
XX W0200171042-A2.
XX
XX 27-SEP-2001.
XX
XX 23-MAR-2001; 2001WO-US009231.
XX
XX 23-MAR-2000; 2000US-0191637P.
XX
XX 11-JUL-2000; 2000US-00614150.
XX
XX (PEKE ) PE CORP NY.
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XX
PI Venter JC, Adams M, Li PWD, Myers EW;
XX
DR WPI; 2001-656860/75.
XX
PT New isolated nucleic acid detection reagent for detecting 1000 or more
PT genes from Drosophila and for elucidating cell signaling and cell-cell
PT interactions.
XX
XX Claim 1; SEQ ID NO 8083; 21pp + Sequence Listing; English.
XX
CC The invention relates to an isolated nucleic acid detection reagent
CC capable of detecting 1000 or more genes from Drosophila. The invention is
CC useful in developmental biology and in elucidating cell signalling and
CC cell-cell interactions in higher eukaryotes for the development of
CC insecticides, therapeutics and pharmaceutical drugs. The invention
CC discloses genomic DNA sequences (ABLI6176-ABLI30511), expressed DNA
CC sequences (ABLI01840-ABLI6175) and the encoded proteins (ABBI57737-
CC ABBI72072). The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 4027 BP; 1205 A; 797 C; 729 G; 1296 T; 0 U; 0 Other;

Query Match 10.0%; Score 224.2; DB 4; Length 4027;
Best Local Similarity 58.0%; Pred. No. 6.8e-39;
Matches 397; Conservative 0; Mismatches 288; Indels 0; Gaps 0;

Qy 412 GACAAGAGCTCTTCAGAAATGATGGCGTGTGGACACGCTGACGCGCTGGGGGCC 471
Db 2456 GAGCGAGATCGTCTGATGTAATGGAATGGAACCGGATCGCTGAGGTCTCTGGGCGCG 2397
Qy 472 GTGTGGCTCGGTGGACATGGTCTCAGCAGCTGCCCAGTGGTTCAGAGTCTTCCATAC 531
Db 2396 AGACAGAGCTGGCAGATGTGGGTGAGCAGACTTTGCCGAACGGCAGATTATACCTCTAC 2337
Qy 532 CTCCTCGTCTCTCGGCCGAACTGGGGAGCGATCCACGAAGGACCGCTGTGCTTCTACG 591
Db 2336 CAAAGTTCCTGCTGGGAACCTTTGGGCAAGAACCCCTCTAAGAGACCGTGTGCTCTATG 2277
Qy 592 GCCACTTGGACGTGAGCCTGCTGACCGGGGCGATGGGTGGCTCAGGACCCCTATGTGC 651
Db 2276 GTCAATTTGGATGTGACGCCCTCTGAAGGAAGATGGATGGAACACCAATCCCTTTGAGC 2217
Qy 652 TGACGGAGGTAGACGGGAACCTTTATGACGAGGCGGACCGCAACAAAGCCCTGTCT 711
Db 2216 TTACAGAGGTGGATGGAATAATTTCTTAGCGGATGTTGATTTTGTGATATCCGATAACTACT 2157
Qy 712 TGGCTTGGATCAATGCTGTGAGCGCTTTCAGAGCCCTTGGAGCAAGATCTTCTCTGTAATA 771
Db 2156 TGTCTGGATCCAGCTATCGAAGCTTATCAGAAGCTCAACTTGCCTGCTGATG 2097
Qy 772 TCAAAATCATTTGAGGGATGGAAGAGGCTGCTCTGTTGCCCTGGAGAACTTGTGG 831
Db 2096 TTAATTCGTATTTGAGGGAATGGAAGAAAGCGGACGAGAGGCTCGATGACTTGTAT 2037
Qy 832 AAAAGAAAGGACCGATCTTCTCTGTTGGTGGACTACATTTGTAATTCAGATAACCTGT 891
Db 2036 TGGAACTGTAAGATAAATTTCTTAGCGGATGTTGATTTTGTGATATCCGATAACTACT 1977
Qy 892 GGATCAGCAAGGAAGCCAGCAATCACTTATGAAACCGGGGGAAACAGCTACTTTCATGG 951
Db 1976 GGCTTGGAAAAAAGCCCTTGCCTCAGATATGGCTTGGCGGTTTGGCATCTTCAAG 1917
Qy 952 TGGAGGTGAAATGACAGACACGAGATTTTCACTCAGGAACCTTTGGTGGCATCTTCATG 1011
Db 1916 TGGAGGTGGAATGCTCCAGCAAGACTTGCATAGTGGAGTTTGGGGGTACAGTTCACG 1857
Qy 1012 AACCAATGGCTGATCTGTTGCTCTTCTCGTAGCCTGTTAGACTCTGCTGGTCATATCC 1071
Db 1856 AAGCAATGCCGGAATCTGTGTCATTTGCTGAGCATCTTGTGATAAAGATACAAATATCC 1797
Qy 1072 TGGTCCCTGGAATCTATGATGAAGT 1096
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Db      1796 TAGTCCCTGGTGTGGATCGGACCT 1772
|||||
RESULT 70
AAH05416
ID      AAH05416 standard; cDNA; 774 BP.
XX
AC      AAH05416;
XX
DT      26-JUN-2001 (first entry)
XX
DE      Human cDNA clone (5'-primer) SEQ ID NO:2251.
XX
KW      Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
XX
OS      Homo sapiens.
XX
FN      EP1074617-A2.
XX
PD      07-FEB-2001.
XX
PF      28-JUL-2000; 2000EP-00116126.
XX
PR      29-JUL-1999; 99JP-00248036.
PR      27-AUG-1999; 99JP-00300253.
PR      11-JAN-2000; 2000JP-00118776.
PR      02-MAY-2000; 2000JP-00183767.
PR      09-JUN-2000; 2000JP-00241899.
XX
PA      (HELI-) HELIX RES INST.
XX
PI      Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
PI      Ishii S, Sugiyama T, Wakamatsu A, Negai K, Otsuki T;
XX
DR      WPI; 2001-318749/34.
XX
PT      Primer sets for synthesizing polynucleotides, particularly the 5602 full-
PT      length cDNAs defined in the specification, and for the detection and/or
PT      diagnosis of the abnormality of the proteins encoded by the full-length
PT      cDNAs.
XX
PS      Claim 1; SEQ ID NO 2251; 2537pp + Sequence Listing; English.
XX
SS      The present invention describes primer sets for synthesising 5602 full-
CC      length cDNAs defined in the specification. Where a primer set comprises:
CC      (a) an oligo-dr primer and an oligonucleotide complementary to the
CC      complementary strand of a polynucleotide which comprises one of the 5602
CC      nucleotide sequences defined in the specification, where the
CC      oligonucleotide comprises at least 15 nucleotides; or (b) a combination
CC      of an oligonucleotide comprising a sequence complementary to the
CC      complementary strand of a polynucleotide which comprises a 5'-end
CC      sequence and an oligonucleotide comprising a sequence complementary to a
CC      polynucleotide which comprises a 3'-end sequence, where the
CC      oligonucleotide comprises at least 15 nucleotides and the combination of
CC      the 5'-end sequence/3'-end sequence is selected from those defined in the
CC      specification. The primer sets can be used in antisense therapy and in
CC      gene therapy. The primers are useful for synthesising polynucleotides,
CC      particularly full-length cDNAs. The primers are also useful for the
CC      detection and/or diagnosis of the abnormality of the proteins encoded by
CC      the full-length cDNAs. The primers allow obtaining of the full-length
CC      cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
CC      AAH13633 to AAH18742 represent human cDNA sequences; AAH92446 to AAH95893
CC      represent human amino acid sequences; and AAH13629 to AAH13632 represent
CC      oligonucleotides, all of which are used in the exemplification of the
CC      present invention
XX
SQ      Sequence 774 BP; 180 A; 196 C; 228 G; 167 T; 0 U; 3 Other;

Query Match      9.9%; Score 222; DB 4; Length 774;
Best Local Similarity 56.7%; Pred. No. 1.2e-38;
Matches 408; Conservative 0; Mismatches 311; Indels 0; Gaps 0;

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PA (FARB ) BAYER AG.  
XX Liou J;  
XX WPI; 2002-315660/35.  
XX New purified human carboxypeptidase-like enzyme, useful for identifying  
PT modulators of enzyme activity for treating cancer, asthma, allergy or  
PT chronic obstructive pulmonary disease.  
XX Disclosure; Fig 4; 127pp; English.  
XX The invention relates to a purified human carboxypeptidase-like enzyme.  
CC The enzyme is useful for screening for agents which decrease the activity  
CC of an carboxypeptidase-like enzyme. The invention is also useful for  
CC treating a carboxypeptidase-like enzyme dysfunction related diseases  
CC condition such as chronic obstructive pulmonary disease, cancer, asthma  
CC or allergy. The invention is also useful for modulating carboxypeptidase-  
CC like enzyme activity in a disease condition. The invention is useful in  
CC diagnostic assays for detecting diseases and abnormalities or  
CC susceptibility to diseases and abnormalities related to presence of  
CC mutations in the nucleic acid sequences which encode the enzyme. The  
CC present sequence is human DNA encoding carboxypeptidase-like enzyme  
XX  
SQ Sequence 594 BP; 137 A; 146 C; 189 G; 122 T; 0 U; 0 Other;  
  
Query Match 9.2%; Score 205.4; DB 6; Length 594;  
Best Local Similarity 60.2%; Pred. No. 56-35;  
Matches 358; Conservative 0; Mismatches 236; Indels 1; Gaps 1;  
  
Qy 553 TGGGAGCGATCCACGAAGGCGCGTGTCTTACGGCCACTTGGACGTGAGCGCTG 612  
Db 1 TGGGCTCGACCCACAGAAGACCGGTGTCATTTAGGGGCACCTGGATGTGAGCGCTG 60  
  
Qy 613 CTGACCGGGCGATGGGTGGCTACGGACCCCTATGTCTGACGAGGTAGACGGGAAC 672  
Db 61 CAGCCCTGGAGAGCGGTGGACACGCGAGCGCTTTCACCCCTGGTGGAGCGAGCGCAAGC 120  
  
Qy 673 TTTATGACGAGGAGCGACCGACACAAAGCCCTGTCTTGGCTTGGATCAATCTGTGA 732  
Db 121 TGTATGGAGAGGTTGCACTGATATAGGGCCCGGTGGCGGCTGGATTAACCCCTGG 180  
  
Qy 733 CGCGCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATATTGAGGGGA 792  
Db 181 AAGGTATCAGAAACAGGCCAGGAGATTCCTGTCAAGTCCGATTCTGCCCTCGAAGCA 240  
  
Qy 793 TGGAGAGGCTGGCTCTGTTCCTTGGAGGAACCTTGTGGAAGAAAGAACCGATCT 852  
Db 241 TGGAGGAGTCAAGGCTCTGAGGGCCCTAGACGAGCTGATTTTGGCCGGAAGACACATCT 300  
  
Qy 853 TCTCTGTGTGACTACATTTGATTTTTCAGATACCTGTGTGATCAGCCAAAGGAGCCAG 912  
Db 301 TTAAGGATGTGGATATGTCTGCAATTTCTGCAATTTACTTGGCTGGGAAAGAGAGCCCT 360  
  
Qy 913 CAATCACTTATGGAACCCGGGGGAACAGCTACTTCTATGGTGGAGTGAATGACAGAGACC 972  
Db 361 GCATCACTACCGCTCAGGGGCATCTGCTACTTTTTCATCGAGTGGAGTGCAGACACA 420  
  
Qy 973 AGGATTTTCACTCAGGAACCTTTGGTGGCATCTTTCATGAACCAATGGCTGATCTGTTG 1032  
Db 421 AAGACCTCCATTTCTGGGGGTGTACGGGGGCTCGGTGTCATGAGGCCATGATCTCATTT 480  
  
Qy 1033 CTCTTCTCGGTAGCTGTGTGATCTGCTGTGATATCTTCTGCTTGGATCTATGATG 1092  
Db 481 TGCTGGATGGGCTCTTGTGTGACAAGAGGGGGAACATCTCTGATCCCGGCATTAACAGG 540  
  
Qy 1093 AAGTGGTTCCTTTACAGAAGAGGAATAAATATACATACAAAGCCATCCATCTAGA 1147  
Db 541 CCGTGG-CCGCGTCAACGAAGAGGAGCAGACAGCTGTAGCAGCATCGACTTTGA 594

RESULT 72.  
AAD33884

ID AAD33884 standard; DNA; 701 BP.  
XX  
AC AAD33884;  
XX  
DT 16-JUL-2002 (first entry)  
XX  
DE Human carboxypeptidase-like enzyme DNA #1.  
XX  
KW Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;  
KW chronic obstructive pulmonary disease; cytostatic; antiasthmatic;  
KW antiallergic; enzyme; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO200220805-A2.  
XX  
PD 14-MAR-2002.  
XX  
PP 05-SEP-2001; 2001WO-EP010203.  
XX  
PR 11-SEP-2000; 2000US-0231546P.  
XX  
PA (FARB ) BAYER AG.  
XX  
PI Liou J;  
XX  
XX WPI; 2002-315660/35.  
XX  
XX New purified human carboxypeptidase-like enzyme, useful for identifying  
PT modulators of enzyme activity for treating cancer, asthma, allergy or  
PT chronic obstructive pulmonary disease.  
XX  
XX Disclosure; Fig 1; 127pp; English.  
XX  
CC The invention relates to a purified human carboxypeptidase-like enzyme.  
CC The enzyme is useful for screening for agents which decrease the activity  
CC of an carboxypeptidase-like enzyme. The invention is also useful for  
CC treating a carboxypeptidase-like enzyme dysfunction related diseases  
CC condition such as chronic obstructive pulmonary disease, cancer, asthma  
CC or allergy. The invention is also useful for modulating carboxypeptidase-  
CC like enzyme activity in a disease condition. The invention is useful in  
CC diagnostic assays for detecting diseases and abnormalities or  
CC susceptibility to diseases and abnormalities related to presence of  
CC mutations in the nucleic acid sequences which encode the enzyme. The  
CC present sequence is human DNA encoding carboxypeptidase-like enzyme  
XX  
SQ Sequence 701 BP; 167 A; 189 C; 206 G; 139 T; 0 U; 0 Other;  
  
Query Match 9.1%; Score 204.8; DB 6; Length 701;  
Best Local Similarity 58.6%; Pred. No. 71e-35;  
Matches 356; Conservative 0; Mismatches 252; Indels 0; Gaps 0;  
  
Qy 1105 TTACAGAAGAGGAAATAATACATACAAAGCCATCCATCTAGACCTAGAGAATACCGGA 1164  
Db 54 TCACGGAAGAGGACACAAGCTGTACGACATCGACTTGTACATAGAGGAGTTTGCCA 113  
  
Qy 1165 ATAGCAGCCGGTGTGAAATTTCTGTTCATCTAGAGGAGAGATCTTAATGACCTCT 1224  
Db 114 AGGATGTGGGGGCGCAGCATCTCTTCACAGCCCAAGAAAGACATCTCATGACCGAT 173  
  
Qy 1225 GGAGGTACCCATCTCTTTCTATTCTATGGGATCGAGGGCGGTTTGTATGAGCCTGGAACTA 1284  
Db 174 GGCGGTACCCGTCTCTGTCTCCATGGCATCGAGGGCGCTTCTCTGGGTCTGGGGCCA 233  
  
Qy 1285 AAACAGTATACCTGGCCGAGTTATAGGAAATTTTCAATCCGTCTAGTCCCTCACAATGA 1344  
Db 234 AGACCGTGATTCACGGAAGGTGGTGGCAAGTTCTCATCAGGCTCGTCCGAACATGA 293  
  
Qy 1345 ATGTGTCTGGGTGGGAAACACAGGTGACACGATCTTGAAGATGTGTTCTTCCAAAGAA 1404  
Db 294 CTCTGAAGTCTGTCGGCGAGCAGGTCAAGAGTACCTAACTAAGAAAGTTTGTCTGAAC 353  
  
Qy 1405 ATAGTTCCAAAGATGGTTGTTTCCATGACTCTAGGACTACACCCCGTGGATTGCAATA 1464

Db 354 GCAGCCCCAATGATGTTCAAGGTGTACATGGCCACGGTGGGAAGCCCTGGGTCTCGACT 413  
QY 1465 TTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTGTGTTGGAAACAGAC 1524  
Db 414 TCAGTCACCCCTCATTTACCTGGCTGGGAGAGAGCCATGAAGACAGTGTGTTGGTGTGAGC 473  
QY 1525 CAGATATGATCCGGGATGGATCCACCATTCCAATTCGCAAAATGTTCCAGGAGATCGTCC 1584  
Db 474 CAGACTTGACCCAGGAGGCGGAGTATTCCTGGACTTTTGACCTTTCAGGAGGCCACGG 533  
QY 1585 ACAAGAGCGTGTGCTAAATTCCTGGAGCTGTGATGATGAGAGAACATTTCCAGCAATG 1644  
Db 534 GCAGAACGTCATGCTGCTGCTGGGTACGGGATGACGGAGCCACTCCAGAAATG 593  
QY 1645 AGAAATCAACAGGTGGAACATCATAGAGGGAACCAAAATTAATTTGCTGCTTTTCTTAG 1704  
Db 594 AAAAGCTCAACAGGTATACTACATAGAGGGAACCAAGATGCCGGCGGCTACCTGTATG 653  
QY 1705 AGATGGCC 1712  
Db 654 AGGTCTCC 661

RESULT 73

AAD33888  
ID AAD33888 standard; DNA; 567 BP.  
AC AAD33888;  
XX  
XX  
DT 16-JUL-2002 (first entry)  
XX  
DE Human carboxypeptidase-like enzyme DNA #5.  
XX  
KW Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;  
KW chronic obstructive pulmonary disease; cytostatic; antiasthmatic;  
KW antiallergic; enzyme; ds.  
XX  
XX Homo sapiens.  
XX  
XX WO200220805-A2.  
XX  
XX 14-MAR-2002.  
XX  
XX 05-SEP-2001; 2001WO-EP010203.  
XX  
XX 11-SEP-2000; 2000US-0231546P.  
XX  
XX (FARB ) BAYER AG.  
XX  
XX Liou J;  
XX  
XX WPI; 2002-315660/35.  
XX  
XX New purified human carboxypeptidase-like enzyme, useful for identifying  
PT modulators of enzyme activity for treating cancer, asthma, allergy or  
PT chronic obstructive pulmonary disease.  
XX  
XX Disclosure; Fig 5; 127pp; English.  
XX  
XX The invention relates to a purified human carboxypeptidase-like enzyme.  
XX The enzyme is useful for screening for agents which decrease the activity  
CC of an carboxypeptidase-like enzyme. The invention is also useful for  
CC treating a carboxypeptidase-like enzyme dysfunction related diseases  
CC condition such as chronic obstructive pulmonary disease, cancer, asthma  
CC or allergy. The invention is also useful for modulating carboxypeptidase-  
CC like enzyme activity in a disease condition. The invention is useful in  
CC diagnostic assays for detecting diseases and abnormalities or  
CC susceptibility to diseases and abnormalities related to presence of  
CC mutations in the nucleic acid sequences which encode the enzyme. The  
CC present sequence is human DNA encoding carboxypeptidase-like enzyme  
XX  
XX Sequence 567 BP; 130 A; 140 C; 179 G; 117 T; 0 U; 1 Other;

Query Match 8.8%; Score 196.6; DB 6; Length 567;  
Best Local Similarity 60.2%; Pred. No. 4.2e-33;  
Matches 342; Conservative 0; Mismatches 225; Indels 1; Gaps 1;  
QY 581 GTGCTTTCTACGGCCACTTGGACGTGCTGCTGACCGGGGCGATGGGTGGCTCACGGA 640  
Db 1 GTGCATTTACGGGCACTGGATGTGCAGCTGCAGCCCTGGAGGACGGCTGGGACAGCGA 60  
QY 641 CCCTATGCTGTACGGAGGTAGACGGGAAACTTTATGACGAGGAGCCACCGACACAA 700  
Db 61 GGCCTTTCACCTGGTGGAGCGAGACGGCAAGCTGTCATGGGAGAGGTTTCGACTGATATA 120  
QY 701 AGSCCTGTCTGGCTTGGATCAATGCTGTGAGCGCTTTCAGAGCCCTCGAGCAAGATCT 760  
Db 121 GGGCCCGGTGGCGGCTGGATTAACCCCTGGAAGCGTATCAGAAAACAGGCCAGAGAT 180  
QY 761 TCTGTGAATATCAAAATTCATCATTTGAGGGGATGGAAGAGGCTGCTCTGTTGCCCTGGA 820  
Db 181 TCTGTCAAGCTCCGATTTCTGCTCGAAGCATGGAGGAGTCAGGCTCTGAGGGCCTAGA 240  
QY 821 GGAACTTTGGAAAAGAAAGACCGGATTCCTCTGCTGTGGACTACATTGTAATTTTC 880  
Db 241 CGAGCTGATTTTGGCCCGAAAACACATTTCTTAAGGATGTGGACTCGTCTGCAATTTTC 300  
QY 881 AGATAACCTGTGGATCAGCCAAAGGAGCCAGCAATCACTTATGGAACCCGGGGGAACAG 940  
Db 301 TGACAATTTACTGGTGGGAAAGAGAGCCCTGTCATCCTACCG-CTTCAGGGGCAATTG 359  
QY 941 CTACTTTCATGTTGGAGGTGAAATGACAGACACAGGATTTTCACTCAGGAACCTTTGGTGG 1000  
Db 360 CTACTTTTTTCATCGAGGTGGAGTGCAGCAACAAAGACCTCCATTTCTGGGGTGTACGNGG 419  
QY 1001 CATCTTTCATGAACCAATGCTGCTGCTCTCTCGGTAGCTGCTGCTGCTGCTGCTGCTC 1060  
Db 420 CTCGGTGCATGAGGCCATGACTGATCTCATTTTGGCTGATGGGCTCTTTGGTGACAAGAA 479  
QY 1061 TGGTCATATCTTGGTCCCTGGAATCATGATGAAGTGTTCCTCTTACAGAAGAGCAAT 1120  
Db 480 GGGGAACATCTTGATCCCGGCATTAACGAGCCGCTGGCCGCTGCGGAGAGGAGCA 539  
QY 1121 AAATACATACAAAGCCATCCATCTAGAC 1148  
Db 540 CAAAGCTGTACGACATCGACTTTGAC 567  
RESULT 74  
AAD33894  
ID AAD33894 standard; DNA; 699 BP.  
AC AAD33894;  
XX  
XX  
DT 16-JUL-2002 (first entry)  
XX  
XX Human carboxypeptidase-like enzyme DNA #11.  
XX  
XX Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;  
KW chronic obstructive pulmonary disease; cytostatic; antiasthmatic;  
KW antiallergic; enzyme; ds.  
XX  
XX Homo sapiens.  
XX  
XX WO200220805-A2.  
XX  
XX 14-MAR-2002.  
XX  
XX 05-SEP-2001; 2001WO-EP010203.  
XX  
XX 11-SEP-2000; 2000US-0231546P.  
XX  
XX (FARB ) BAYER AG.  
XX  
XX Liou J;







PT New purified human carboxypeptidase-like enzyme, useful for identifying  
 PT modulators of enzyme activity for treating cancer, asthma, allergy or  
 PT chronic obstructive pulmonary disease.  
 XX  
 XX  
 PS Disclosure; Fig 3; 127pp; English.  
 XX  
 CC The invention relates to a purified human carboxypeptidase-like enzyme.  
 CC The enzyme is useful for screening for agents which decrease the activity  
 CC of an carboxypeptidase-like enzyme. The invention is also useful for  
 CC treating a carboxypeptidase-like enzyme dysfunction related diseases  
 CC condition such as chronic obstructive pulmonary disease, cancer, asthma  
 CC or allergy. The invention is also useful for modulating carboxypeptidase-  
 CC like enzyme activity in a disease condition. The invention is useful in  
 CC diagnostic assays for detecting diseases and abnormalities or  
 CC susceptibility to diseases and abnormalities related to presence of  
 CC mutations in the nucleic acid sequences which encode the enzyme. The  
 CC present sequence is human DNA encoding carboxypeptidase-like enzyme  
 XX  
 SQ Sequence 623 BP; 156 A; 143 C; 196 G; 128 T; 0 U; 0 Other;

Query Match 8.1%; Score 180.8; DB 6; Length 623;  
 Best Local Similarity 58.8%; Pred. No. 1.3e-29;  
 Matches 333; Conservative 0; Mismatches 227; Indels 6; Gaps 1;  
 313 TCTTCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGAGTGGGTGG 372  
 Db |||||  
 26 TGTTTAAGTACATAGATGAAATCAGGATCGCTACATTAAAGAACTCGCAAAATGGGTGG 85  
 373 CCATCGAGAGGATCTGTCTCAGGCTGTGCTCCTCTTCAGCAAGAGCTCTTCAGAAATGA 432  
 Db |||||  
 86 CTATCCAGAGTGTCTGCTGGTGGCGGAG-----AAGAGAGGGCAATCAGGAGGATGA 139  
 433 TGGCCGTGGTGGCGACACGCTGCAGCGCTGGGGGCCCGTGTGGCCCTCGGTGACATGG 492  
 Db |||||  
 140 TGGAAATGCTGCTGCGAGATGTTAAGCAGTTGGGGGGCTCTGTGAACTGGTGATATCG 199  
 493 GTCTCTAGCAGCTGCCCGATGGTCAGAGTCTTCCAATACCTCCGTCATCTGCGCCGAAC 552  
 Db |||||  
 200 GAAACAAAGTCCCTGATGGCTCGGAGATCCCGCTCCCTCTTCTGCTGGCAGGC 259  
 553 TGGGAGCGGATCCACAAAGGACCGTGTGCTTCTAGGGCACTTGGAGTGGAGCCTG 612  
 Db |||||  
 260 TGGGCTCCGACCCACAGAAGAAGACCGTGTGCAITTTACGGGCACCTGGATGTGAGCCTG 319  
 613 CTGACCGGGCGATGGGTGGCTCACGACCCCTATGTGCTGACGAGGTAGACGGGAAC 672  
 Db |||||  
 320 CAGCCCTGGAGGACGCTGGACAGCGCCCTTCACCCCTGGTGGAGCGAGACGGCAAGC 379  
 673 TTTATGACGAGGAGCGACCGACAAAGAGCCCTGTCTTGGCTTGGATCAATGCTGTGA 732  
 Db |||||  
 380 TGTATGGGAGAGGTTCTGACTGATATAAGGGCCCGGTGGCGGCTGGATAAAGCCCTGG 439  
 733 GCGCCTTCAGAGCCCTGGAGCAAGATCTTCTGTGATATCAATTCATATTGAGGGGA 792  
 Db |||||  
 440 AAGCGTATCAGAAACAGGCGCAGGAGATTCGTGTCAACGCTCCGATTCCTCGCTCGAAGGCA 499  
 793 TGGAAAGGCTGGCTCTGTTGGCCCTGGAGGAACCTGTGGAAAGAAAGAACCGATTCT 852  
 Db |||||  
 500 TGGAGGAGTCAAGGCTCTGAGGGCCCTAGACGAGCTGATTTTGGCCGGAAGACATCTCT 559  
 853 TCTCTGGTGTGGACTACATATTGTAAT 878  
 Db |||||  
 560 TTAAGGATGTGGACTATGTCTGCATT 585

RESULT 78

AAD33889

ID AAD33889 standard; DNA; 640 BP.

XX AC

XX AAD33889;

XX AC

XX 16-JUL-2002 (first entry)

DT

XX

DE Human carboxypeptidase-like enzyme DNA #6.

XX Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;

XX Chronic obstructive pulmonary disease; cytostatic; antitasthmatic;

XX antiallergic; enzyme; ds.

XX Homo sapiens.

OS

XX WO200220805-A2.

PN

XX 14-MAR-2002.

PD

XX 05-SEP-2001; 2001WO-EP010203.

PF

XX 11-SEP-2000; 2000US-0231546P.

PR

XX (FARB ) BAYER AG.

PA

XX Liou J;

PI

XX MPI; 2002-315660/35.

DR

XX New purified human carboxypeptidase-like enzyme, useful for identifying

PT modulators of enzyme activity for treating cancer, asthma, allergy or

PT chronic obstructive pulmonary disease.

XX Disclosure; Fig 6; 127pp; English.

PS

XX The invention relates to a purified human carboxypeptidase-like enzyme.

CC The enzyme is useful for screening for agents which decrease the activity

CC of an carboxypeptidase-like enzyme. The invention is also useful for

CC treating a carboxypeptidase-like enzyme dysfunction related diseases

CC condition such as chronic obstructive pulmonary disease, cancer, asthma

CC or allergy. The invention is also useful for modulating carboxypeptidase-

CC like enzyme activity in a disease condition. The invention is useful in

CC diagnostic assays for detecting diseases and abnormalities or

CC susceptibility to diseases and abnormalities related to presence of

CC mutations in the nucleic acid sequences which encode the enzyme. The

CC present sequence is human DNA encoding carboxypeptidase-like enzyme

XX

SQ Sequence 640 BP; 153 A; 147 C; 204 G; 136 T; 0 U; 0 Other;

Query Match 8.0%; Score 178.4; DB 6; Length 640;

Best Local Similarity 59.4%; Pred. No. 4.3e-29;

Matches 341; Conservative 0; Mismatches 226; Indels 7; Gaps 2;

313 TCTTCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGAGTGGGTGG 372

Db |||||

56 TGTTTAAGTACATAGATGAAATCAGGATCGCTACATTAAAGAACTCGCAAAATGGGTGG 115

Qy |||||

373 CCATCGAGAGGACTCTGTCCAGCCTGTGCTCGCTTCAGACAAAGAGCTCTTCAGAAATGA 432

Db |||||

116 CTATCCAGAGTGTGTCTGCGTGGCCGAG-----AAGAGAGGGCAATCAGGAGGATGA 169

Qy |||||

433 TGGCCCGTGGCTGGCGACACGCTGCAGCGCTGGGGGCCCGTGTGGCCCTCGGTGACATGG 492

Db |||||

170 TGGAAATGCTGCTGCGAGATGTTAAGCAGTTGGGGGCTCTGTGGAACCTGGTGATATCG 229

Qy |||||

493 GTCTCTAGCAGCTGGCCGATGGTTCAGAGTCTTCAATACCTCCGTCATCTGCGCCGAAC 552

Db |||||

230 GAAAAACAAAAGCTCCCTGTATGGTGGCTCGGAGATCCCGCTCCCTCTCTCTCTCGCAGGC 289

Qy |||||

553 TGGGGAGCGATCCACGAAAGGACCGTGTGCTTCTACGGCCCACTTCGAGCTGCAGCCTG 612

Db |||||

290 TGGGCTCCGACCCACAGAGAACCGTGTGCATTTACGGGACCTGGATGTGAGCCTG 349

Qy |||||

613 CTGACCGGGCGATGGGTGGCTCACGAGACCCCTATGTGTGACGGAGGTAGACGGGAAC 672

Db |||||

350 CAGCCCTGGAGGACGCTGGGACAGCGAGCCCTTCACCCCTGGTGGAGCGAGCGGCAAGC 409

Qy |||||

673 TTTATGACGAGGAGGACCGACAAACAAAGGCCCTGTCTGGCTTGGATCAATGCTGTGA 732

Db |||||

410 TGTATGGGAGAGGTTCTGACTGATGATAAGGGCCCGGTGGCCGCTGGATTAAGCCCTGG 469





QY 313 TCTTCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACCTGAAGAGTGGGTGG 372  
 Db |||||  
 182 TGTTAAGTACATAGATGAAATCAGGATCGCTACATTAAGAAATCGCAAAATGGGTGG 241  
 QY 373 CCATCGAGAGCGACTCTGTCTCCAGCTGTGCCTGCTTTCAGACAGAGCTCTTCAGAAATGA 432  
 Db |||||  
 242 CTATCCAGAGTGTCTGTCTGGCGGAG-----AAGAGAGCGGAATCAGGAGGATGA 295  
 QY 433 TGGCGTGGTGGCGGACACGCTGCAGCGCTGTGGGGCCCGTGTGGCTCGGTGGACATGG 492  
 Db |||||  
 296 TCGAAGTTGCTGCTGCAGATGTTAAGCAGATTGGGGGCTCTGTGAACTGGTGATATCG 355  
 QY 493 GTCTCTAGCAGCTGCCGATGGTTCAGAGTCTTCCAAATCCTCCGCTCATCTGGCCCAAC 552  
 Db |||||  
 356 GAAACAAAGCTCCCTGATGGCTCGGAGATCCCGCTCCCTCTTATCTGTCTGGCAGGC 415  
 QY 553 TGGGAGCGATPCCACGAAAGGCACCGTGTGCTTCTACGGCCACTTGGAGCTGCAGCCTG 612  
 Db |||||  
 416 TGGCTCCGACCCACAGAAAGACCGTGTGCATTTACGGGCACCTGGATGTGCAGCTG 475  
 QY 613 CTGACCGGGCGATGGTGGCTACGGACCCCTATGTCTGACGAGGTAGAGGGAAC 672  
 Db |||||  
 476 CAGCCCTGGAGGCGCTGGACAGCGAGCCCTTCAACCCTGGTGGAGCGGCAAGC 535  
 QY 673 TTTATGACGAGGAGCGACCGACAAACAAAGGCCCTGTCTTACGGCCACTTGGAGCTGCAGCTGA 732  
 Db |||||  
 536 TGTATGGGGAGGTTCACTGATGATAAGGCCCGGTGGCGGCTGGATTAAGCCCTGG 595  
 QY 733 GCGCTTCAGAGCCCTGGAGCAGATCTTCTGTGAATATCAAAATTCATCATTTGAGGGGA 792  
 Db |||||  
 596 AAGCGTATCAAAACAGGCCAGGAGATTCTGTCAACGTCCTGATTCGCTCGAAGCA 655  
 QY 793 TGGAGAGGCTGGCTGTGTTG 813  
 Db |||||  
 656 TGGAAGGAGTCAAGGCTCTTG 676

## RESULT 82

ACH74305  
 ID ACH74305 standard; DNA; 582 BP.

AC ACH74305;  
 AC ACH74305;

XX 29-JUL-2004 (first entry)  
 XX 29-JUL-2004 (first entry)

XX Human genome derived single exon probe #7500.  
 XX Human; probe; ss; gene expression; single exon probe; microarray;

KW alternative splicing event; genomic alteration.  
 XX Homo sapiens.

XX US2003194704-A1.  
 XX 16-OCT-2003.

XX 03-APR-2002; 2002US-00029386.  
 XX 03-APR-2002; 2002US-00029386.

XX (PENN/) PENN S G.  
 XX (RANK/) RANK D R.

XX (HANZ/) HANZEL D K.  
 XX Penn SG, Rank DR, Hanzel DK;

XX WPI; 2004-119264/12.  
 XX New human genome-derived single exon probe useful for human

XX gene expression analysis, for identifying or characterizing alternative  
 XX splicing events, for assessing genomic alterations or as tools for  
 XX surveying tissues.

PS Claim 15; SEQ ID NO 7500; 80pp; English.

XX The invention relates to a nucleic acid probe for measuring human gene  
 CC expression, comprising any of the 27,400 fully defined nucleotide  
 CC sequences in the specification, or their complements or fragments, and  
 CC encoding at least 8 amino acids of any of the 6888 amino acid sequences  
 CC fully defined in the specification. The probe is a single exon probe that  
 CC hybridizes under high stringency conditions to a nucleic acid molecule  
 CC expressed in human cells or tissues. Also included are a spatially-  
 CC addressable set of single exon nucleic acid probes for measuring human  
 CC gene expression (comprising a plurality of single exon nucleic acid  
 CC probes cited above, where each of the plurality of probes is separately  
 CC and addressably isolatable or amplifiable from the plurality), a single  
 CC exon microarray for measuring human gene expression, a method of  
 CC measuring human gene expression, a vector comprising the single exon  
 CC probe cited above, an ORF-encoded peptide comprising at least 8  
 CC contiguous amino acids of any of the above-mentioned amino acid  
 CC sequences (optionally with conservative amino acid substitutions), an  
 CC isolated antibody that binds specifically to a peptide cited above,  
 CC a method of selling and/or licensing single exon probes or microarrays to  
 CC a customer desiring to measure gene expression, a method of providing  
 CC human gene expression data by subscription, and a computer-readable  
 CC storage medium which contains a database having a plurality of records  
 CC (each record including data on the expression of a single exon probe  
 CC cited above. The probe, methods and apparatus are useful in gene  
 CC expression analysis. The probes may be used as tools for surveying  
 CC tissues to detect the presence of expressed messages that contain their  
 CC specific exon, or in constructing genome-derived single exon microarrays.  
 CC In addition, the probes are used in identifying and characterising  
 CC alternative splicing events, in detecting and characterising gross  
 CC alterations in the genomic locus that includes their exon, in assessing  
 CC smaller genomic alterations, in priming the synthesis of nucleic acids,  
 CC or in expressing the ORF-encoded peptide. The present sequence is a human  
 CC single exon probe of the invention. Note: The sequence data for this  
 CC patent did not form part of the printed specification, but was obtained  
 CC in electronic format directly from USPTO at  
 CC seqdata.uspto.gov/sequence.html?DocID=20030194704

XX Sequence 582 BP; 115 A; 174 C; 155 G; 138 T; 0 U; 0 Other;  
 XX Query Match 6.9%; Score 154.4; DB 12; Length 582;

XX Best Local Similarity 99.4%; Pred. No. 7-7e-24;  
 XX Matches 155; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 352 AGACGCTGAAGAGTGGGTGGCCATCGAGAGCGACTCTGTCCAGCTGTGCTCGCTTCA 411  
 Db |||||

197 AGACGCTGAAGAGTGGGTGGCCATCGAGAGCGACTCTGTCCAGCTGTGCTCGCTTCA 256  
 QY 412 GACAAAGAGCTCTTCAGAAATGATGGCGCTGGCGACACGCTGCAGCGCCTGGGGGCC 471  
 Db |||||

257 GACAAAGAGCTCTTCAGAAATGATGGCGCTGGCGACACGCTGCAGCGCCTGGGGGCC 316  
 QY 472 GTGTGGCTCGGTGACATGGGTCTCTCAGCAGCTGC 507  
 Db |||||

317 GTGTGGCTCGGTGACATGGGTCTCTCAGCAGCTGC 352  
 XX RESULT 83

## ACH88005

ID ACH88005 standard; DNA; 156 BP.

XX ACH88005;  
 XX ACH88005;

XX 29-JUL-2004 (first entry)  
 XX 29-JUL-2004 (first entry)

XX Human genome derived single exon probe #21200.  
 XX Human; probe; ss; gene expression; single exon probe; microarray;

KW alternative splicing event; genomic alteration.  
 XX Homo sapiens.

XX OS Homo sapiens.  
 XX US2003194704-A1.



QY 284 CTCCTCCGCCCCGCGCTGTAGAGAAAGCTTCCAGTACATTCAGCTCCATCAGGATGA 343  
 Db 222 CTCCTCCGCCCCGCGCTGTAGAGAAAGCTTCCAGTACATTCAGCTCCATCAGGATGA 281  
 QY 344 ATTTGTGCAGACGCTGAAGAGTGGGTGGCCATCGAGAGCGACTCTCTCCAGCTGTGCC 403  
 Db 282 ATTTGTGCAGACTCCAA-----TGTCTATGCTTTGAA 314  
 QY 404 TCGCTTCAGACAAGAGCTCTTCAGAAATGATGGCGTGGCTGGCGA-CACGCTGCAGCGCC 462  
 Db 315 TTTTCTGGAAGAAACAACACAGCATTTTGTGAAAATGTGATTCCTGATCATTTCTGCAGCTGC 374  
 QY 463 TGGGGGCGCGTGTGGCCCTCGGTGGACATGGGTCTCAGCAGCTGCCCGCATGCTCAGAGTC 522  
 Db 375 -----CCGATGGTTCAGAGTC 390  
 QY 523 TTCC-AATACCTCCCGTCATCTGGCCGAACTGGGGAGCGATCCACGAAAGGCACCGTG 581  
 Db 391 TTCCAAATACCTCCCATCATCTCGCCGGAATTGGGGAGCGATCCACGAAAGGCACCGTG 450  
 QY 582 TGCTTCTACGGCACTTGGAGCTGCAGCTGTGACCGGGGCGATGG 628  
 Db 451 TGCTTCTACGGCACTTGGAGCTGCAGCTGTGACCGGGGCGATGG 497

## RESULT 85

AAD33892  
 ID AAD33892 standard; DNA; 558 BP.

XX AC AAD33892;

XX DT 16-JUL-2002 (first entry)

XX DE Human carboxypeptidase-like enzyme DNA #9.

XX KW Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;  
 chronic obstructive pulmonary disease; cytostatic; antiasthmatic;  
 antiallergic; enzyme; ds.

XX OS Homo sapiens.

XX PN WO200220805-A2.

XX PD 14-MAR-2002.

XX PF 05-SEP-2001; 2001WO-EP010203.

XX PR 11-SEP-2000; 2000US-0231546P.

XX PA (FARB ) BAYER AG.

XX PI Liou J;

XX DR WPI; 2002-315660/35.

XX DE New purified human carboxypeptidase-like enzyme, useful for identifying  
 PT modulators of enzyme activity for treating cancer, asthma, allergy or  
 PT chronic obstructive pulmonary disease.

XX PS Disclosure; Fig 9; 127pp; English.

XX CC The invention relates to a purified human carboxypeptidase-like enzyme.  
 CC The enzyme is useful for screening for agents which decrease the activity  
 CC of a carboxypeptidase-like enzyme. The invention is also useful for  
 CC treating a carboxypeptidase-like enzyme dysfunction related diseases  
 CC condition such as chronic obstructive pulmonary disease, cancer, asthma  
 CC or allergy. The invention is also useful for modulating carboxypeptidase-  
 CC like enzyme activity in a disease condition. The invention is useful in  
 CC diagnostic assays for detecting diseases and abnormalities or  
 CC susceptibility to diseases and abnormalities related to presence of  
 CC mutations in the nucleic acid sequences which encode the enzyme. The  
 CC present sequence is human DNA encoding carboxypeptidase-like enzyme

XX SQ Sequence 558 BP; 133 A; 135 C; 172 G; 114 T; 0 U; 4 Other;  
 Query Match 6.7%; Score 150.2; DB 6; Length 558;  
 Best Local Similarity 58.5%; Pred. No. 6.3e-23;  
 Matches 279; Conservative 0; Mismatches 192; Indels 6; Gaps 1;  
 QY 313 TCTTCAGTACATTTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGGTGG 372  
 Db 86 TGTTTAAGTACATAGATGAAATCAGGATCGCTACATTAAGAAACTCGCAAAATGGGTGG 145  
 QY 373 CCATCGAGAGCGACTCTGTCCAGCCTGTGCTCGCTTTCAGACAAAGAGCTCTTCAGAAATGA 432  
 Db 146 CTATCCAGAGTGTGTCTGCTGCGCCGAG-----AAGAGAGCGGAAATCAGAGGATGA 199  
 QY 433 TGGCCGTGCTCGGACACGCTGCAGCGCTGGGGCCCGTGTGGCCTCGGTGGACATGG 492  
 Db 200 TGGAGTTTCTGCTGCAGATGTTAAGCAGTTGGGGGCTCTGTGAACTGGTGGATATCG 259  
 QY 493 GTCTTCAGCAGCTGCCCGATGCTCAGAGTCTTCCATACCTCCGTCATCTCTGGCCGAAC 552  
 Db 260 GAAACAAAGCTCCCTGATGGCTCGGAGATCCCGTCCCTCTATTCCTGCTCGGACGC 319  
 QY 553 TGGGGAGCGATCCACGAAAGCACCGTGTGCTTCTACGGCCACTTGGACGTCGACGCTG 612  
 Db 320 TGGGCTCCGACCCACAGAAAGACCGTGTGCATTTACGGGCACCTGGATGTGCAGCCTG 379  
 QY 613 CTGACCGGGCGATGGGTGGCTCAGGACCCCTATGTGTGACGAGGTAGACGGGAAC 672  
 Db 380 CAGCCCTGGAGGACGCTGGGACAGCGAGCCCTTCACTGTTGGAGCGAGACGCAAGC 439  
 QY 673 TTTATGGACGAGGAGCGACCGACAAAGAGCCCTGTCTTGGCTTGGATCAATGCTGTA 732  
 Db 440 TGTATGGAGAGGTTGCGACTGATGATAAGGGCCCGTGGCNGCTGGATAAAGCCCTGN 499  
 QY 733 GCGCCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAATTCATTTGAGG 789  
 Db 500 AAGCGTATCAGAAACAGGCGCCANGAGATTCCTGTCAAGTCCGATTCTGCTCGGAAG 556

## RESULT 86

AAD33893  
 ID AAD33893 standard; DNA; 665 BP.

XX AC AAD33893;

XX DT 16-JUL-2002 (first entry)

XX DE Human carboxypeptidase-like enzyme DNA #10.

XX KW Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;  
 chronic obstructive pulmonary disease; cytostatic; antiasthmatic;  
 antiallergic; enzyme; ds.

XX OS Homo sapiens.

XX PN WO200220805-A2.

XX PD 14-MAR-2002.

XX PF 05-SEP-2001; 2001WO-EP010203.

XX PR 11-SEP-2000; 2000US-0231546P.

XX PA (FARB ) BAYER AG.

XX PI Liou J;

XX DR WPI; 2002-315660/35.

XX DE New purified human carboxypeptidase-like enzyme, useful for identifying  
 PT modulators of enzyme activity for treating cancer, asthma, allergy or  
 PT chronic obstructive pulmonary disease.





XX 08-DEC-1999 (first entry)  
XX AAD33900 standard; DNA; 518 BP.  
XX AAD33900;  
XX AAD33900;  
XX 16-JUL-2002 (first entry)  
XX Human carboxypeptidase-like enzyme DNA #17.  
XX Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;  
XX chronic obstructive pulmonary disease; cytostatic; antiasthmatic;  
XX antiallergic; enzyme; ds.  
XX Homo sapiens.  
XX WO200220805-A2.  
XX 14-MAR-2002.  
XX 05-SEP-2001; 2001WO-EP010203.  
XX 11-SEP-2000; 2000US-0231546P.  
XX (FARB ) BAYER AG.  
XX Liou J;  
XX WPI; 2002-315660/35.  
XX New purified human carboxypeptidase-like enzyme, useful for identifying  
XX modulators of enzyme activity for treating cancer, asthma, allergy or  
XX chronic obstructive pulmonary disease.  
XX Disclosure; Fig 17; 127pp; English.  
XX The invention relates to a purified human carboxypeptidase-like enzyme.  
XX The enzyme is useful for screening for agents which decrease the activity  
XX of an carboxypeptidase-like enzyme. The invention is also useful for  
XX treating a carboxypeptidase-like enzyme dysfunction related diseases  
XX condition such as chronic obstructive pulmonary disease, cancer, asthma  
XX or allergy. The invention is also useful for modulating, carboxypeptidase-  
XX like enzyme activity in a disease condition. The invention is useful in  
XX diagnostic assays for detecting diseases and abnormalities or  
XX susceptibility to diseases and abnormalities related to presence of  
XX mutations in the nucleic acid sequences which encode the enzyme. The  
XX present sequence is human DNA encoding carboxypeptidase-like enzyme  
XX  
XX Query Match 5.7%; Score 128.4; DB 6; Length 518;  
XX Best Local Similarity 59.7%; Pred. No. 3.7e-18;  
XX Matches 216; Conservative 0; Mismatches 146; Indels 0; Gaps 0;  
QY 1356 GTGGA AAAA CAGGTGACACGACATCTTGAAGATGTCTTCCAAAGAATAAGTTCACAC 1415  
Db 3 GTCGGCGAGCAGGTCAACAAGCTACTTAAGAGATTTGCTGAAGTACGCGACCCCAAT 62  
QY 1416 AAGATGGTGTTCATGACTCTAGGACTACACCCGCGGATTCGAAATATGATGACAC 1475  
Db 63 GAGTTCAAGGTGTACATGGGCCACGGTGGAGGCCCTGGGTCTCCGACTTCAGTCAACCT 122  
QY 1476 CAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTGTTCGAAACAGAACCCAGATATGATC 1535  
Db 123 CATTACCTGCTGGGAGAGAGCCATGAAGACAGATTTTGGTGTGGAGCAGACTTGACC 182  
QY 1536 CGGGATGGATCCACCATTCCTCAATTCGCAAAATGTTCCAGAGATCGTCCACAGAGCGTG 1595  
Db 183 AGGGAAGGCGGCGAGTATTCCTGAGACCTTGACCTTTTCAGAGAGCCACGGGCAAGAGCTC 242  
QY 1596 GTGCTAATTCGCTGGGAGCTGTTGATGATGGAGAACATTCGAGATGAGAAATCAAC 1655

XX 08-DEC-1999 (first entry)  
XX Human breast tumour-associated EST 25.  
XX Expressed sequence tag; EST; human; breast; cancer; gene therapy;  
XX treatment; tumour; cytostatic; medicament; ss.  
XX Homo sapiens.  
XX DE19813839-A1.  
XX 23-SEP-1999.  
XX 20-MAR-1998; 98DE-01013839.  
XX 20-MAR-1998; 98DE-01013839.  
XX (META-) METAGEN GES GENOMFORSCHUNG MBH.  
XX Specht T, Hinzmann B, Schmitt A, Pillarsky C, Dahl B, Rosentahl A;  
XX WPI; 1999-528981/45.  
XX P-PSDB; AAY48560.  
XX Human nucleic acid sequences and protein products from tumor breast  
XX tissue, useful for breast cancer therapy.  
XX Claim 1a; 104; 189pp; German.  
XX This invention describes novel human nucleic acid sequences from tumor  
XX breast tissue which have cytostatic activity. The nucleic acid sequences  
XX can be used to produce and isolate full-length gene sequences. They can  
XX be used to express proteins, which can be used as tools to find an  
XX activity against breast cancer. The sequences can be used in sense or  
XX antisense form. They are especially useful for medicaments for gene  
XX therapy to treat breast cancer. AA233611-248617 represents expressed  
XX sequence tags described in the method of the invention  
XX  
XX Query Match 5.8%; Score 129.6; DB 2; Length 886;  
XX Best Local Similarity 58.6%; Pred. No. 2.4e-18;  
XX Matches 225; Conservative 0; Mismatches 159; Indels 0; Gaps 0;  
QY 1356 GTGGA AAAA CAGGTGACACGACATCTTGAAGATGTCTTCCAAAGAATAAGTTCACAC 1415  
Db 169 GTCGGCGAGCAGGTCAACAAGCTACTTAAGAGATTTGCTGAAGTACGCGACCCCAAT 228  
QY 1416 AAGATGGTGTTCATGACTCTAGGACTACACCCGCGGATTCGAAATATGATGACAC 1475  
Db 229 GAGTTCAAGGTGTACATGGGCCACGGTGGAGGCCCTGGGTCTCCGACTTCAGTCAACCT 288  
QY 1476 CAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTGTTCGAAACAGAACCCAGATATGATC 1535  
Db 289 CATTACCTGCTGGGAGAGAGCCATGAGACAGTCTTGGTGTGGAGCCAGACTTGACC 348  
QY 1536 CGGGATGGATCCACATTCCTCAATTCGCAAAATGTTCCAGAGATCGTCCACAGAGCGTG 1595  
Db 349 AGGGAAGGCGGCGAGTATTCCTGAGACCTTTTCAGGAGGCCACCGGCAAGAGCTC 408  
QY 1596 GTGCTAATTCGCTGGGAGCTGTTGATGATGAGAACATTCGCAAGATGAGAAATCAAC 1655  
Db 409 ATGCTGCTGCTGTGGGTGACGGATGACGGAGCCCACTCCAGATGAGAACTCAAC 468  
QY 1656 AGGTGGAACTACATAGAGGGAACCAAAATATTGCTGCTTTTCTTAGAGATGGCCAG 1715  
Db 469 AGGTATACTACATAGAGGGAACCAAGATGCTGGCGGCTACCTGTATGAGGTCTCCAG 528  
QY 1716 CTCCTAATTCACAGAACCTTCT 1739  
Db 529 CTGAAGGACTAGGCCAACGCCCTCT 552

Db 243 ATGCTGCTGCTGGGCTCAGCGATGACGGAGCCCACTCCAGAGTAAAGCTCAAC 302  
 Qy 1656 AGGTGGAACATACATAGAGGGAACCAATATTATTCGTGCTTTTCTTAGAGATGCCAG 1715  
 Db 303 AGGTATACATACATAGAGGGAACCAAGATGCTGGCCGGTACCTGTATGAGGTCTCCAG 362  
 Qy 1716 CT 1717  
 Db 363 CT 364  
 RESULT 90  
 AAD33896/c  
 ID AAD33896 standard; DNA; 464 BP.  
 XX  
 AC AAD33896;  
 XX  
 DT 16-JUL-2002 (first entry)  
 XX  
 DE Human carboxypeptidase-like enzyme DNA #13.  
 XX  
 KW Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;  
 KW chronic obstructive pulmonary disease; cytostatic; antiasthmatic;  
 KW antiallergic; enzyme; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200220805-A2.  
 XX  
 PD 14-MAR-2002.  
 XX  
 PF 05-SEP-2001; 2001WO-EP010203.  
 XX  
 PR 11-SEP-2000; 2000US-0231546P.  
 XX  
 PA (FARB ) BAYER AG.  
 XX  
 PI Liou J;  
 XX  
 DR WPI; 2002-315660/35.  
 XX  
 PT New purified human carboxypeptidase-like enzyme, useful for identifying  
 PT modulators of enzyme activity for treating cancer, asthma, allergy or  
 PT chronic obstructive pulmonary disease.  
 XX  
 PS Disclosure; Fig 13; 127pp; English.  
 XX  
 CC The invention relates to a purified human carboxypeptidase-like enzyme.  
 CC The enzyme is useful for screening for agents which decrease the activity  
 CC of an carboxypeptidase-like enzyme. The invention is also useful for  
 CC treating a carboxypeptidase-like enzyme dysfunction related diseases  
 CC condition such as chronic obstructive pulmonary disease, cancer, asthma  
 CC or allergy. The invention is also useful for modulating carboxypeptidase-  
 CC like enzyme activity in a disease condition. The invention is useful in  
 CC diagnostic assays for detecting diseases and abnormalities or  
 CC susceptibility to diseases and abnormalities related to presence of  
 CC mutations in the nucleic acid sequences which encode the enzyme. The  
 CC present sequence is human DNA encoding carboxypeptidase-like enzyme  
 XX  
 SQ Sequence 464 BP; 93 A; 133 C; 114 G; 124 T; 0 U; 0 Other;  
 Query Match 5.7%; Score 128.2; DB 6; Length 464;  
 Best Local Similarity 57.5%; Pred. No. 4e-18;  
 Matches 249; Conservative 0; Mismatches 183; Indels 1; Gaps 1;  
 Qy 699 AAGGCCCTGTCTGGCTTGATCAATGTGTAGCGCTTCAGAGCCCTGGAGCAAGAT 758  
 Db 464 AAGGCCCTGTCTGGCTTGATCAATGTGTAGCGCTTCAGAGCCCTGGAGCAAGAT 405  
 Qy 759 CTTCCTGTATAT-CAATTCATCATTTAGGGGATGAGAGCGCTGGCTCTGTGCCCT 817  
 Db 404 ATTCCTGTCAAGCCCGGATTTCTCCCTCGAAGGCGATGAGGAGTCAAGGCTCTGAGGCGCT 345

Qy 818 GGAGAACTTGTGAAAAAGAAAAGAGCCGATTTCTTCTGGTGTGGACTACATTGTAAT 877  
 Db 344 AGACGAGCTGATTTTTTCCCGGAAGACACATTTTAAAGATGTGACTACGTCTGCAT 285  
 Qy 878 TTCAGATAACCTGTGGATCAGCAAAAGAGAACCCAGCAATCACTTATGAAACCCCGGGGAA 937  
 Db 284 TTCTGACAATTACTGGCTGGGAAAGAAAGCCCTGCATCACCTACCTACGGCCCTCAGGGGCAT 225  
 Qy 938 CAGCTACTTTCATGGTGGAGGTGAAATGCAGAGACCAGGATTTTCACTCAGGAACCTTTGG 997  
 Db 224 TTGCTACTTTTTCATCGAGGTGAGTGCAGCAAAAGACCTTCATTTCTGGGGGTACGG 165  
 Qy 998 TGGCATCTCTTCATGAACCAATGGCTGATCTGGTTGCTTCTTCGTAAGCTCGTAGACTC 1057  
 Db 164 GGCTCGGTGCATGAGGCCATGACTGATCTCAITTTGCTGATGGCTCTTTTGGTGACAA 105  
 Qy 1058 GTCTGTGCATATCTGCTGCTCCCTGGAATCTATGATGAAGTGGTTCCTCTTACAGAAGAGGA 1117  
 Db 104 GAGGGGAACATCTGATCCCGGCATTAAAGAGCCGTGGCCCGCTCAGGAGAGGA 45  
 Qy 1118 AATAAATACATAC 1130  
 Db 44 GCCCAAGCTGTAC 32  
 RESULT 91  
 AAX10638/c  
 ID AAX10638 standard; DNA; 127 BP.  
 XX  
 AC AAX10638;  
 XX  
 DT 30-MAR-1999 (first entry)  
 XX  
 DE Human biallelic polymorphic DNA fragment WI-15225.  
 XX  
 KW Polymorphism; biallelic; human; forensic; paternity testing; disease;  
 KW detection; phenotypic typing; characteristic; infection; hereditary;  
 KW autoimmune disease; cancer; inflammation; drug; therapy; medication;  
 KW treatment; marker; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9820165-A2.  
 XX  
 PD 14-MAY-1998.  
 XX  
 PF 05-NOV-1997; 97WO-US020313.  
 XX  
 PR 06-NOV-1996; 96US-0030455P.  
 XX  
 PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.  
 XX  
 PI Lander ES, Wang D, Hudson T;  
 XX  
 DR WPI; 1998-286974/25.  
 XX  
 PT New isolated nucleic acid segments from the human genome - used for  
 PT determining polymorphic forms for use in e.g. forensics, paternity  
 PT testing or phenotypic typing for disease.  
 XX  
 PS Claim 1; Page 67; 310pp; English.  
 XX  
 CC AAX10269-X12937 are human DNA fragments which contain biallelic  
 CC polymorphic markers which have been isolated using the primers  
 CC represented in AAX09121-X10268. The base occupying the polymorphic site  
 CC is indicated by the appropriate IUPAC-IUB ambiguity code. These fragments  
 CC can be used in methods for determining polymorphic forms in an individual  
 CC for use in e.g. forensics, paternity testing or for phenotypic typing for  
 CC diseases such as agammaglobulinemia, diabetes insipidus, Lesch-Nyhan  
 CC syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease,  
 CC familial hypercholesterolemia, polycystic kidney disease, hereditary  
 CC spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary  
 CC haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos

CC syndrome, osteogenesis imperfecta, acute intermittent porphyria,  
CC autoimmune diseases, inflammation, cancer, diseases of the nervous  
CC system, infection by pathogenic microorganisms, and characteristics such  
CC as longevity, appearance (e.g. baldness, obesity), strength, speed,  
CC endurance, fertility, and susceptibility or receptivity to particular  
CC drugs or therapeutic treatments. The isolated polymorphic nucleic acid  
CC segments can also be used to produce medicaments for the treatment or  
CC prophylaxis of such diseases  
XX  
SQ Sequence 127 BP; 47 A; 16 C; 36 G; 27 T; 0 U; 1 Other;  
Query Match 5.6%; Score 126.6; DB 2; Length 127;  
Best Local Similarity 99.2%; Pred. No. 6e-18; Indels 0; Gaps 0;  
Matches 126; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 2017 TTTTAGCATATCTCCAACTTGCAATTTGATTGGCATAATCACTCCGGTTTGTCTAG 2076  
Db 127 TTTTAGCATATCTCCAACTTGCAATTTGATTGGCATAATCACTCCGGTTTGTCTAG 68  
QY 2077 GTCTCAAGTCTCGTGACACATAATCAATCCATCCCAATGATCGCTTTGCTTACCCT 2136  
Db 67 GTCTCAAGTCTCGTGACACATAATCAATCCATCCCAATGATCGCTTTGCTTACCCT 8  
QY 2137 CTTTCT 2143  
Db 7 CTTTCT 1  
RESULT 92  
AAD33904/c  
ID AAD33904 standard; DNA; 536 BP.  
XX AC AAD33904;  
XX DT 16-JUL-2002 (first entry)  
XX DE Human carboxypeptidase-like enzyme DNA #21.  
XX KW Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;  
XX KW chronic obstructive pulmonary disease; cytostatic; antiasthmatic;  
XX KW antiallergic; enzyme; ds.  
XX OS Homo sapiens.  
XX PN WO200220805-A2.  
XX PD 14-MAR-2002.  
XX PF 05-SEP-2001; 2001WO-EP010203.  
XX PR 11-SEP-2000; 2000US-0231546P.  
XX PA (FARB ) BAYER AG.  
XX PI Liou J;  
XX DR WPI; 2002-315660/35.  
XX PT New purified human carboxypeptidase-like enzyme, useful for identifying  
XX PT modulators of enzyme activity for treating cancer, asthma, allergy or  
XX PT chronic obstructive pulmonary disease.  
XX PS Disclosure; Fig 21; 127pp; English.  
XX CC The invention relates to a purified human carboxypeptidase-like enzyme.  
XX CC The enzyme is useful for screening for agents which decrease the activity  
XX CC of a carboxypeptidase-like enzyme. The invention is also useful for  
XX CC treating a carboxypeptidase-like enzyme dysfunction related diseases  
XX CC condition such as chronic obstructive pulmonary disease, cancer, asthma  
XX CC or allergy. The invention is also useful for modulating carboxypeptidase-  
XX CC like enzyme activity in a disease condition. The invention is useful in  
XX CC diagnostic assays for detecting diseases and abnormalities or  
XX CC susceptibility to diseases and abnormalities related to presence of

CC mutations in the nucleic acid sequences which encode the enzyme. The  
CC present sequence is human DNA encoding carboxypeptidase-like enzyme  
XX  
SQ Sequence 536 BP; 125 A; 156 C; 133 G; 122 T; 0 U; 0 Other;  
Query Match 5.6%; Score 125.2; DB 6; Length 536;  
Best Local Similarity 61.8%; Pred. No. 1.9e-17;  
Matches 199; Conservative 0; Mismatches 123; Indels 0; Gaps 0;  
QY 417 GAGCTCTTCAGAAATGATGCCGTGCTGGGACACGCTGCAGCGCTGGGGCCCGTGTG 476  
Db 536 GAAATCAGGAGGATGATGAAGTTGCTGCTGCAGATGTTAAGCAGTTGGGGGCTCTGTG 477  
QY 477 GCCTCGGTGGACATCGGTCTTCAGCAGCTGCCCGATGGTCAGAGTCTTCCAATACCTCC 536  
Db 476 GAACTGGTGGATATCGGAAAACAAAAGTCCCTGATGGCTCGGAGATCCCGTCTCTCT 417  
QY 537 GTCATCTCTGGCCGAACCTGGGAGCGATCCAGAAAGGACCGTGTGTCTTACGGCCAC 596  
Db 416 ATTCTGCTCGGAGGCTGGGCTCCGACCCACAGAAAGACCGTGTGCAATTTACGGCAC 357  
QY 597 TTGGAGTGCAGCCCTGCTGACCGGGCGATGGGTGGCTCACGACCCCTATGTGCTGACG 656  
Db 356 CTGGATGTGCAGCTGCAGCCCTGGAGGACGGCTGGACAGCGCCCTTCAACCTGGTG 297  
QY 657 GAGGTAGACGGGAAACTTTATGGACGAGGAGCGACCGACAAAGGGCCCTGTCTTGGCT 716  
Db 296 GAGCGAGACGGCAAGCTGTATGGGAGAGTTGCACTGATAGAGGCCCGTGGCCGCGC 237  
QY 717 TGGATCAATGTGTGAGCGCCT 738  
Db 236 TGGATAAACGCCCTGGAAGCGT 215  
RESULT 93  
AAD33901  
ID AAD33901 standard; DNA; 366 BP.  
XX AC AAD33901;  
XX DT 16-JUL-2002 (first entry)  
XX DE Human carboxypeptidase-like enzyme DNA #18.  
XX KW Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;  
XX KW chronic obstructive pulmonary disease; cytostatic; antiasthmatic;  
XX KW antiallergic; enzyme; ds.  
XX OS Homo sapiens.  
XX PN WO200220805-A2.  
XX PD 14-MAR-2002.  
XX PF 05-SEP-2001; 2001WO-EP010203.  
XX PR 11-SEP-2000; 2000US-0231546P.  
XX PA (FARB ) BAYER AG.  
XX PI Liou J;  
XX DR WPI; 2002-315660/35.  
XX PT New purified human carboxypeptidase-like enzyme, useful for identifying  
XX PT modulators of enzyme activity for treating cancer, asthma, allergy or  
XX PT chronic obstructive pulmonary disease.  
XX PS Disclosure; Fig 18; 127pp; English.  
XX CC The invention relates to a purified human carboxypeptidase-like enzyme.  
XX CC The enzyme is useful for screening for agents which decrease the activity  
XX CC of a carboxypeptidase-like enzyme. The invention is also useful for  
XX CC treating a carboxypeptidase-like enzyme dysfunction related diseases  
XX CC condition such as chronic obstructive pulmonary disease, cancer, asthma  
XX CC or allergy. The invention is also useful for modulating carboxypeptidase-  
XX CC like enzyme activity in a disease condition. The invention is useful in  
XX CC diagnostic assays for detecting diseases and abnormalities or  
XX CC susceptibility to diseases and abnormalities related to presence of



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XX DR WPI; 2002-315660/35.
XX PD
XX PF New purified human carboxypeptidase-like enzyme, useful for identifying
XX PT modulators of enzyme activity for treating cancer, asthma, allergy or
XX PR chronic obstructive pulmonary disease.
XX PS Disclosure; Fig 16; 127pp; English.
XX CC The invention relates to a purified human carboxypeptidase-like enzyme.
XX CC The enzyme is useful for screening for agents which decrease the activity
XX CC of an carboxypeptidase-like enzyme. The invention is also useful for
XX CC treating a carboxypeptidase-like enzyme dysfunction related diseases
XX CC condition such as chronic obstructive pulmonary disease, cancer, asthma
XX CC or allergy. The invention is also useful for modulating carboxypeptidase-
XX CC like enzyme activity in a disease condition. The invention is useful in
XX CC diagnostic assays for detecting diseases and abnormalities or
XX CC susceptibility to diseases and abnormalities related to presence of
XX CC mutations in the nucleic acid sequences which encode the enzyme. The
XX CC present sequence is human DNA encoding carboxypeptidase-like enzyme
XX SQ Sequence 402 BP; 96 A; 92 C; 132 G; 82 T; 0 U; 0 Other;
Query Match 5.4%; Score 120.2; DB 6; Length 402;
Best Local Similarity 59.8%; Pred. No. 2.2e-16;
Matches 222; Conservative 0; Mismatches 143; Indels 6; Gaps 1;
QY 313 TCTTCAGTACATGACCTCCATCAGATGAATTGTGACAGCGCTGAAGAGTGGTGG 372
Db 38 TGTTTAAGTACATAGATGAAATCAGGATCGCTACATTAAAGAACTCGCAAAATGGGTGG 97
QY 373 CCATCAGAGCGACTGTGCTCCAGCCTGTGCTCGCTTCAGACAGAGCTTTCAGAAATGA 432
Db 98 CTATCCAGAGTGTGTCTGCGTGGCCGAG-----AAGAGAGCGGAAATCAGGAGGATGA 151
QY 433 TGGCCGTGGCTGGCGGACACGCTGCAGCGCTGGGGGGCCCGTGTGGCCCTCGGTGGACATGG 492
Db 152 TGGAAAGTGTCTGTCGACAGATGTTAAGCAGTGTGGGGGCTCTGTGGAACTGGTGGATATCG 211
QY 493 GTCTCAGAGCTGCCCGATGGTCAGAGTCTTCCAAATACCTCCGTCATCTCGGCCGAC 552
Db 212 GAAAAAAGAAAGTCCCTGTATGGCTCGGAGATCCGCTCCCTCTATTCTGCTCGGAGGC 271
QY 553 TGGGAGCGATCCACAGAAAGGACCGTGTGCTTCTACGSCCACTTGGAGCTGCAGCTG 612
Db 272 TGGCTCCGACCCACAGAGAACCGTGTGCAITTTACGGGCACTTGGATGTCCAGCCTG 331
QY 613 CTGACCGGGCGGATGGTGGCTCAGCGACCCCTATGTGTGTCGCGAGGTAGACGGGAAAC 672
Db 332 CAGCCCTGGAGGACGGCTGGGACAGCGAGCCCTTCACCTGTGTGGAGCGAGCGGCAAGC 391
QY 673 TTTATGGACGA 683
Db 392 TGTATGGGAGA 402
RESULT 96
AAD33903
ID AAD33903 standard; DNA; 345 BP.
XX AC
XX AD AAD33903;
XX DT
XX DT 16-JUL-2002 (first entry)
XX DE Human carboxypeptidase-like enzyme DNA #20.
XX KW Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;
XX KW chronic obstructive pulmonary disease; cytostatic; antiasthmatic;
XX KW antiallergic; enzyme; ds.
XX OS Homo sapiens.
XX PN WO200220805-A2.
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XX 14-MAR-2002.
XX PD
XX PF 05-SEP-2001; 2001WO-EP010203.
XX PR 11-SEP-2000; 2000US-0231546P.
XX PA (FARB ) BAYER AG.
XX PI Liou J;
XX DR WPI; 2002-315660/35.
XX PT New purified human carboxypeptidase-like enzyme, useful for identifying
XX PT modulators of enzyme activity for treating cancer, asthma, allergy or
XX PT chronic obstructive pulmonary disease.
XX PS Disclosure; Fig 20; 127pp; English.
XX CC The invention relates to a purified human carboxypeptidase-like enzyme.
XX CC The enzyme is useful for screening for agents which decrease the activity
XX CC of an carboxypeptidase-like enzyme. The invention is also useful for
XX CC treating a carboxypeptidase-like enzyme dysfunction related diseases
XX CC condition such as chronic obstructive pulmonary disease, cancer, asthma
XX CC or allergy. The invention is also useful for modulating carboxypeptidase-
XX CC like enzyme activity in a disease condition. The invention is useful in
XX CC diagnostic assays for detecting diseases and abnormalities or
XX CC susceptibility to diseases and abnormalities related to presence of
XX CC mutations in the nucleic acid sequences which encode the enzyme. The
XX CC present sequence is human DNA encoding carboxypeptidase-like enzyme
XX SQ Sequence 345 BP; 90 A; 89 C; 99 G; 67 T; 0 U; 0 Other;
Query Match 5.3%; Score 119.6; DB 6; Length 345;
Best Local Similarity 59.4%; Pred. No. 2.8e-16;
Matches 203; Conservative 0; Mismatches 139; Indels 0; Gaps 0;
QY 1339 ACATGAATGTGTCTGCGTGGAAAAACAGGTGACGACGACATCTTGAAGATGTTCTCCA 1398
Db 4 ACATGACTCTGAAGTCTGCGGAGCAGGTCAACAGCTACCTAATAAGAGTTTGTCTG 63
QY 1399 AAGAATAATAGTTCACAAAGATGGTTTTCATGACTCTTAGGACTACACCGTGGATTG 1458
Db 64 AACTACGACGAGCCCAATGAGTTCAAGGTGTACATGGGCCACGTTGGAGCCCTTGGTCT 123
QY 1459 CAAATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGATGTTTGGAA 1518
Db 124 CGACTTTCAGTCACTTACCTTACCTGGCTGGGAGAGAGCCATGAAGACAGATTTTGGTG 183
QY 1519 CAGAACCCAGATATGATCCGGGATGGATCCACATTCCAATTGCCAAAATGTTCCAGAGA 1578
Db 184 TTGAGCCAGACTTGACCCAGGAAAGGCGGAGTATTCCTGACCTTGACCTTTCAGGAGG 243
QY 1579 TCGTCCCAAGAGCGTGGTGTAAATTCCTCGCTGGGAGCTGTTGATGATGAGAACATTCG 1638
Db 244 CCACGGGCAAGAACGTCATGCTGCTGCTGCTGGGTCAGCGGATGACGAGCCACTCCC 303
QY 1639 AGAATGAGAAAAATCAACAGGTGGAACATACATAGAGGGAACCA 1680
Db 304 AGAATGAAAAAGCTCAACAGGTATTAATACTACATAGAGGGAACCA 345
RESULT 97
AAD33902
ID AAD33902 standard; DNA; 380 BP.
XX AC
XX AD AAD33902;
XX DT
XX DT 16-JUL-2002 (first entry)
XX DE Human carboxypeptidase-like enzyme DNA #19.
XX KW Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;
```

KW chronic obstructive pulmonary disease; cytostatic; antiasthmatic;  
XX anti-allergic; enzyme; ds.  
XX Homo sapiens.  
XX WO200220805-A2.  
XX 14-MAR-2002.  
XX 05-SEP-2001; 2001WO-EP010203.  
XX 11-SEP-2000; 2000US-0231546P.  
XX (FARB ) BAYER AG.  
XX Liou J;  
XX WPI; 2002-315660/35.  
XX New purified human carboxypeptidase-like enzyme, useful for identifying  
XX modulators of enzyme activity for treating cancer, asthma, allergy or  
XX chronic obstructive pulmonary disease.  
XX Disclosure; Fig 19; 127pp; English.  
XX The invention relates to a purified human carboxypeptidase-like enzyme.  
XX The enzyme is useful for screening for agents which decrease the activity  
XX of an carboxypeptidase-like enzyme. The invention is also useful for  
XX treating a carboxypeptidase-like enzyme dysfunction related diseases  
XX condition such as chronic obstructive pulmonary disease, cancer, asthma  
XX or allergy. The invention is also useful for modulating carboxypeptidase-  
XX like enzyme activity in a disease condition. The invention is useful in  
XX diagnostic assays for detecting diseases and abnormalities or  
XX susceptibility to diseases and abnormalities related to presence of  
XX mutations in the nucleic acid sequences which encode the enzyme. The  
XX present sequence is human DNA encoding carboxypeptidase-like enzyme  
XX  
SQ Sequence 380 BP; 95 A; 94 C; 109 G; 81 T; 0 U; 1 Other;  
Query Match 5.3%; Score 119.6; DB 6; Length 380;  
Best Local Similarity 59.7%; Pred. No. 2.9e-16;  
Matches 206; Conservative 0; Mismatches 145; Indels 0; Gaps 0;  
QY 1339 ACATGAATGTCTCGCGTGGAAACACAGGTGACACGACATCTTGAAGATGTCTCCCA 1398  
DB 2 ACATGACTCTCGAGTCTCGCGAGCAGGTCAAGACTACCTAAGAGTTTCTGTG 61  
QY 1399 AAGAANAATGTTCCAAACAAGATGTTGTTTCCATGACTCTAGGACTACACCGTGGATTG 1458  
DB 62 AACTACGNAGCCCCAATGAGTTCAGAGGTGATACATGGGCCACGGTGGGAAGCCCTGGGTCT 121  
QY 1459 CAAATATTGATGACACCCAGTATCTCCAGCMAAAGAGCGATCAGAACAGTGTGGA 1518  
DB 122 CCGACTTCAGTCAACCTTACCTTACCTGCTGGGAGAGAGCCATGAACAGATTTTGGTG 181  
QY 1519 CAGAACAGATATGATCCGGATGGATCCACATTTCCAAATGCGCAAAATGTCAGGAGA 1578  
DB 182 TTGAGCCAGACTTGACAGGAGGCGCGAGTATTCCTCGTGACCTTGACCTTTTCAGAGG 241  
QY 1579 TCGTCCACAAGAGCGTGTCTAATTCCTGGGAGCTGTGTGATGATGGAGAACATTCGC 1638  
DB 242 CCAGGGCAAGAACGTATGCTGTGCTGCTGTGGGGTCAGCGGATGACGGAGCCACATTC 301  
QY 1639 AGATGAGAAATCAACAGGTGGNACTACATAGAGGGAACCAATATTG 1689  
DB 302 AGATGAGAAAGCTCAACAGGTATTAACATACATAGAGGGGACCAAGATCTTG 352  
RESULT 98  
AAD33898  
ID AAD33898 standard; DNA; 386 BP.  
XX  
AC AAD33898;

XX 16-JUL-2002 (first entry)  
XX Human carboxypeptidase-like enzyme DNA #15.  
XX Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;  
XX chronic obstructive pulmonary disease; cytostatic; antiasthmatic;  
XX anti-allergic; enzyme; ds.  
XX Homo sapiens.  
XX WO200220805-A2.  
XX 14-MAR-2002.  
XX 05-SEP-2001; 2001WO-EP010203.  
XX 11-SEP-2000; 2000US-0231546P.  
XX (FARB ) BAYER AG.  
XX Liou J;  
XX WPI; 2002-315660/35.  
XX New purified human carboxypeptidase-like enzyme, useful for identifying  
XX modulators of enzyme activity for treating cancer, asthma, allergy or  
XX chronic obstructive pulmonary disease.  
XX Disclosure; Fig 15; 127pp; English.  
XX The invention relates to a purified human carboxypeptidase-like enzyme.  
XX The enzyme is useful for screening for agents which decrease the activity  
XX of an carboxypeptidase-like enzyme. The invention is also useful for  
XX treating a carboxypeptidase-like enzyme dysfunction related diseases  
XX condition such as chronic obstructive pulmonary disease, cancer, asthma  
XX or allergy. The invention is also useful for modulating carboxypeptidase-  
XX like enzyme activity in a disease condition. The invention is useful in  
XX diagnostic assays for detecting diseases and abnormalities or  
XX susceptibility to diseases and abnormalities related to presence of  
XX mutations in the nucleic acid sequences which encode the enzyme. The  
XX present sequence is human DNA encoding carboxypeptidase-like enzyme  
XX  
SQ Sequence 386 BP; 93 A; 102 C; 116 G; 75 T; 0 U; 0 Other;  
Query Match 5.3%; Score 118.2; DB 6; Length 386;  
Best Local Similarity 57.0%; Pred. No. 5.9e-16;  
Matches 216; Conservative 0; Mismatches 163; Indels 0; Gaps 0;  
QY 1278 GGAACATAAACAGTCTACCTGCGGAGTTATAGGAAATTTTCAATCCGTCTAGTCCCT 1337  
DB 8 GGGGCCAAGACCGTGATTCACGAGAGGTGTTGGCAAGTTCTCCATCAGGCTCGTCCG 67  
QY 1338 CACATGAATGTGTCTCGGTGGAAAAACAGGTGACACGACATCTTGAAGATGTGTTCTCC 1397  
DB 68 AACATGACTCTCTGAAGTCGTGCGGAGCAGGTCAAGCTACCTAACTAAGAGTTTGTCT 127  
QY 1398 AAAAGAAATAGTTCACACAGATGTTGTTTTCATGACTCTAGGACTACACCGGTGATT 1457  
DB 128 GAACACTACGACGCCCAATGAGTTCAAGGTGTATCGGCCACCGTGGGAAGCCCTGGGTC 187  
QY 1458 GCAAAATATTGATCAGACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTGTGGA 1517  
DB 188 TCCGACTTCAGTCACCTCTATTACCTGGCTGGGAGAGAGCCATGAAGACAGTTTTTGGT 247  
QY 1518 ACAGAACAGATATGATCCGGGATGGATCCACCATTCCAATTCGCAAAATGTTCCAGGAG 1577  
DB 248 GTTGAGCCAGACTTGACACGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTCAGGAG 307  
QY 1578 ATCGTCCACAGAGCGTGTGCTAATTCGCTGGGAGCTGTTGATGATGAGAGACATTCG 1637  
DB 308 GCCACGGCAAGAACGTCATGCTGCTGCTGTGGGGTCAGCGGATGACGGAGCCCACTCC 367

[illegible]



CC like enzyme activity in a disease condition. The invention is useful in  
 CC diagnostic assays for detecting diseases and abnormalities or  
 CC susceptibility to diseases and abnormalities related to presence of  
 CC mutations in the nucleic acid sequences which encode the enzyme. The  
 CC present sequence is human DNA encoding carboxypeptidase-like enzyme  
 XX  
 SQ Sequence 387 BP; 87 A; 104 C; 112 G; 84 T; 0 U; 0 Other;  
 Query Match 5.0%; Score 112.6; DB 6; Length 387;  
 Best Local Similarity 56.3%; Pred. No. 1e-14;  
 Matches 211; Conservative 0; Mismatches 164; Indels 0; Gaps 0;  
 Qy 1142 TCTGACCTAGAGAAATACCGAATAGCAGCCGGTTGAGAAATTTCTGTTGATCTAA 1201  
 Db 6 TTTGACATAGAGAGTTTGCAAGGATGTGGGGCGCAGATCTCTCTGCACGCCACAA 65  
 Qy 1202 GGAGAGATTTAATGACCTCTGGAGTAGCCATCTTTCTATTATGCGATCGAGG 1261  
 Db 66 GAAAGACATCTCATGCACCGATGGCGGTACCCGTTCTGTCTCCCTCCATGGCATCGAAGG 125  
 Qy 1262 CGCGTTTGATGAGCTTGAACCTAAACAGTCATACCTGGCGGAGTTATAGGAAATTTTC 1321  
 Db 126 CGCTTCTCTGGTCTGGGGCAAGCCGTGATTCGCCAGGAGTGTGGCAAGTTCTC 185  
 Qy 1322 AATCGTCTAGTCCCTCAGTGAATGTGTCTGCGGTGMAAAACAGGTGACACGACATCT 1381  
 Db 186 CATCAGGCTCTGCGCAACATGACTCTCTGGAAGTCTGCGGAGCAGGTCAACAAGCTACCT 245  
 Qy 1382 TGAAGATGTGTTTCCAAAGAAATAGTTTCAACAGATGTTGTTTCCATGACTCTAGG 1441  
 Db 246 AACTAAGAAGTTTGTCTGAATACGACGCCCAATGAGTTCAAGGTGTACATGGGCCACGG 305  
 Qy 1442 ACTACCCCGTGGATTGCAATATTGATGACACCCAGTATCTCGCAGCAAAAGAGCGAT 1501  
 Db 306 TGGAGAGCCCTGGGTCTCCGACTTCAAGTCACCCCTCATTTACTTGCTGGGAGAGGCCAT 1501  
 Qy 1502 CAGAACAGTGTGTTGG 1516  
 Db 366 GAAGACAGTTTTCG 380

RESULT 101  
 ADL44322  
 ID ADL44322 standard; DNA; 654 BP.

XX AC ADL44322;

XX DT 20-MAY-2004 (first entry)

XX DE Human ovarian cancer DNA marker #18212.

XX KW Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.

XX OS Homo sapiens.

XX PN WO200170979-A2.

XX XX 27-SEP-2001.

XX XX 21-MAR-2001; 2001WO-US009126.

XX XX 21-MAR-2000; 2000US-0191031P.

XX PR 25-MAY-2000; 2000US-0207124P.

XX PR 15-JUN-2000; 2000US-0211940P.

XX PR 07-JUL-2000; 2000US-0216820P.

XX PR 25-JUL-2000; 2000US-0220661P.

XX PR 21-DEC-2000; 2000US-0257672P.

XX PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

XX PI Lee J, Lillie J;

XX XX WPI; 2001-611502/70.

XX DR

XX  
 PT  
 FT  
 PT  
 XX  
 PS  
 XX

Novel isolated nucleic acid molecules (markers) overexpressed in ovarian cancer cells as compared to their normal non-cancerous ovarian cells are used to characterize stage, grade, histological type of ovarian cancer.

Disclosure; SEQ ID NO 18212; 106pp; English.

The invention relates to nucleic acid markers which are overexpressed in ovarian cancer cells as compared to their expression in normal (i.e. non-cancerous) ovarian cells. The invention also relates to polypeptides encoded by the markers, antibodies that selectively bind to the polypeptides, a method of inhibiting ovarian cancer in a patient at risk of developing ovarian cancer involving inhibiting expression of a gene corresponding to a marker of the invention and a method of treating a patient afflicted with ovarian cancer comprising providing to cells of the patient an antisense oligonucleotide complementary to a marker of the invention. The markers are useful for assessing if a patient is afflicted with ovarian cancer, which involves comparing the level of expression of a marker in a patient sample and a normal level of expression of the marker in a control non-ovarian cancer sample. A difference between the expression levels indicates ovarian cancer. The level of expression of a marker corresponds to a secreted protein or to a transcribed polynucleotide or its portion. The level of expression of the marker is assessed by detecting the presence in the sample, a protein or protein fragment corresponding to the marker. The presence of protein or protein fragment is detected using an antibody that specifically binds with the protein or protein fragment. Alternatively, the level of expression of the marker is assessed by detecting the presence of a transcribed polynucleotide which anneals with the marker or anneals with a portion of the polynucleotide comprising the marker, under stringent conditions. The marker is also used for monitoring the progression of ovarian cancer in a patient which involves detecting expression of the marker in a patient sample at a first point in time, repeating the method at a subsequent time and comparing the level of expression. The method is carried out using an ovarian tissue sample. A composition comprising a marker, polypeptide or antibody of the invention is used to treat ovarian cancer. This sequence represents a human ovarian cancer DNA marker of the invention.

SQ Sequence 654 BP; 158 A; 161 C; 185 G; 150 T; 0 U; 0 Other;

Query Match 4.8%; Score 108.6; DB 5; Length 654;

Best Local Similarity 62.2%; Pred. No. 8.9e-14;

Matches 171; Conservative 0; Mismatches 104; Indels 0; Gaps 0;

Qy 1426 TTCCATGACTCTAGGACTACACCCGTGGATTGCAATATTGATGACACCCAGTATCTCG 1485

Db 283 TGTACATGGGCCACGGTGGGAAGCCCTGGGTCTCCGACTTCAGTCACCCCTCATTTACCTGG 342

Qy 1486 CAGCAAAAAGAGCGATCAGAACACAGTGTTCGAAACAGAACAGATATGATCCGGATGGAT 1545

Db 343 CTGGAGAGAGCCATGAGACAGTGTTCGTTGTTGAGCAGACTTGACCGGAGAGCG 402

Qy 1546 CCACCATTCCAATGGCCAAATGTTCCAGGAGATCGTCCCAAGAGCGGTGTGCTAATTC 1605

Db 403 GCAGTATTCGGTGACCTTGACCTTTTCAGGAGGCCACGGCAAGACGTGCTGCTGTCG 462

Qy 1606 CGCTGGAGCTGTTGATGATGGAGACATTCGCGAGATGAGAAATCAACAGGTGGAACT 1665

Db 463 CTGTGGGGTCAAGGGATGACGGAGTCCACTCCAGATGAAAGCTCAACAGGTATAACT 522

Qy 1666 ACATAGAGGAACCAATATTGTCGCCCTTTTC 1700

Db 523 ACATAGAGGAACCAAGATGCTGCCCGCTACCTC 557

RESULT 102

ADI72799

ID ADI72799 standard; DNA; 465 BP.

XX AC ADI72799;

XX AC

XX DT 20-MAY-2004 (first entry)



marker corresponds to a secreted protein or to a transcribed polynucleotide or its portion. The level of expression of the marker is assessed by detecting the presence in the sample, a protein or protein fragment corresponding to the marker. The presence of protein or protein fragment is detected using an antibody that specifically binds with the protein or protein fragment. Alternatively, the level of expression of the marker is assessed by detecting the presence of a transcribed polynucleotide which anneals with the marker or anneals with a portion of the polynucleotide comprising the marker, under stringent conditions. The marker is also used for monitoring the progression of ovarian cancer in a patient which involves detecting expression of the marker in a patient sample at a first point in time, repeating the method at a subsequent time and comparing the level of expression. The method is carried out using an ovarian tissue sample. A composition comprising a marker, polypeptide or antibody of the invention is used to treat ovarian cancer. This sequence represents a human ovarian cancer DNA marker of the invention.

Seq	Sequence	465 BP; 118 A; 110 C; 127 G; 110 T; 0 U; 0 Other;	Query Match Best Local Similarity Matches	4.6%; 63.0%; 160;	Score 103.6; Pred. No. 1e-12; Conservative 0;	DB 5; 1e-12; 94;	Length 465; Indels 0;	Gaps 0;
QY	1426	TTTCCATGACTCTAGGACTACCCGTGGATTCGAAATATGTATGACACCCAGTATCTCG	14855					
Db	212	TGTACATGGCCACGGTGGGAGCCCTGGGTCTCCGACTTCAGTCACCCCTCATTTACCTGG	271					
QY	1486	CACCAAAAGAGCGATCAGAACAGTGTTCGAAACAGAACAGATATGATCCGGGATCGAT	1545					
Db	272	CTGGGAGAGGCGCATGACAGACATTTTTCGTGTGAGCCAGACTTCACCCAGGGAAGCG	331					
QY	1546	CCACCATTCCAATTGCCAAAATGTTCCAGAGAGATCGTCCACAGAGCGTGGTGCATATTC	1605					
Db	332	GCAGTATTCCTCGTACCTTCGACCTTCAGGAGGCCACGGGCAAGAACGTATGCTGCTGC	391					
QY	1606	CGCTGGGAGCTGTTGATGATGGAGAACATTTCCGAGAAATGAGAAATCAACAGGTGGAAC	1665					
Db	392	CTGTGGGGTCAGCGGATGACGGAGTCCATCCCCAGATGAAAGCTCAACAGGTATAACT	451					
QY	1666	ACATAGAGGGAACC	1679					
Db	452	ACATAGAGGGAACC	465					

RESULT 104  
 AAS80064  
 ID AAS80064 standard; cDNA; 1390 BP.  
 XX  
 XX AAS80064;  
 AC  
 AC  
 XX  
 XX  
 DT 13-FEB-2002 (first entry)  
 XX  
 XX  
 DE DNA encoding novel human diagnostic protein #1586.  
 DE  
 XX  
 XX Human; chromosome mapping; gene mapping; gene therapy; forensic;  
 KW food supplement; medical imaging; diagnostic; genetic disorder; ss

WIPI; 2001-639362/73.  
P-PSDB; ABG15877.

New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity.

Claim 1; SEQ ID NO 15868; 103pp; English.

The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic coding sequences of the invention. Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPRO at [ftp.wipo.int/pub/published\\_pct\\_sequences](http://wipo.int/pub/published_pct_sequences)

Sequence 1390 BP; 278 A; 397 C; 429 G; 286 T; 0 U; 0 Other;

RESULT 105  
ACH17246  
ID ACH17246 standard; cDNA; 403 BP.  
XX  
XX ACH17246;  
XX

DT	13-OCT-2003 (first entry)	
XX	Human adult heart cDNA #1560.	
XX	Human; ss; sequencing by hybridisation; SBH; expressed sequence tag; EST;	
KW	genome mapping; biodiversity; genetic disorder.	
XX	Homo sapiens.	
XX	US2003073623-A1.	
XX	17-APR-2003.	
XX	30-JUL-2001; 2001US-00918995.	
XX	30-JUL-2001; 2001US-00918995.	
XX	(DRMA/) DRMANAC R T.	
PA	(LABA/) LABAT I.	
PA	(STAC/) STACHE-CRAIN B.	
PA	(DICK/) DICKSON M C.	
PA	(JONE/) JONES L W.	
XX	Dzmanac RT, Labat I, Stache-Crain B, Dickson MC, Jones LW;	
PI	WPI; 2003-615964/58.	
XX	New polynucleotide sequences obtained from various cDNA libraries, useful	
XX	as hybridization probes, as oligomers for PCR, for chromosome and gene	
PT	mapping, in the recombinant production of protein, or in generating	
PT	antisense DNA or RNA.	
XX	Claim 1; SEQ ID NO 4458; 44pp; English.	
XX	The invention relates to an isolated polynucleotide comprising any one of	
XX	38043 cDNA sequences, appearing as ACH12789-ACH50831, whose sequence was	
CC	determined by the technique of SBH (sequencing by hybridisation). Also	
CC	included is a purified polypeptide comprising a sequence corresponding to	
CC	a reading frame of the novel polynucleotide. The nucleic acid sequences	
CC	are useful in diagnostics as expressed sequence tags (EST) for	
CC	identifying expressed genes or for physical mapping of the human genome,	
CC	in forensics, in assessing biodiversity, or in identifying mutations	
CC	responsible for genetic disorders and other traits. The nucleotide	
CC	sequences are also useful as hybridisation probes, as oligomers for PCR,	
CC	for chromosome and gene mapping, in the recombinant production of	
CC	protein, or in generating antisense DNA or RNA. The purified polypeptide	
CC	is useful for generating antibodies specific for it. The present sequence	
CC	is one of the 38043 isolated cDNA/EST sequences. Note: The sequence data	
CC	for this patent did not form part of the printed specification, but was	
CC	obtained in electronic format directly from USPTO at	
CC	seqdata.uspto.gov/sequence.html?DocID=20030073623	
XX	Sequence 403 BP; 93 A; 97 C; 126 G; 87 T; 0 U; 0 Other;	
SQ		
Query Match	4.4%; Score 98.8; DB 9; Length 403;	
Best Local Similarity	59.0%; Pred. No. 1.1e-11;	
Matches	191; Conservative 0; Mismatches 127; Indels 6; Gaps 1;	
QY	313 TCCTCCAGTACATGACCTCATCAGGATGAATTTGTGACAGCGCTCAAGAGTGGGTGG	372
DB	83 TGTTTAAGTACATAGATGAATAATCAGGATCGCTACATTAAGAACTCGCAAAATGGGTGG	142
QY	373 CCATCGAGAGGACTCTGTCCAGCGCTGTGCGCTCTTCAGACAGAGCTTTCAGAAATGA	432
DB	143 CTATCCAGAGTGTCTGCGTGGCGGAG-----AAGAGGGCAATCAGGAGGATGA	196
QY	433 TGGCGGTGGCTGCGGACACGCTGCAGCGCCCTGGGGGCCCGTGTGCGCTCGGTGACATGG	492
DB	197 TGGAAAGTTGCTGTCAGATGTTAAGCAGTGTGGGGGGCGCTGTGGAATCGTGATATCG	256
QY	493 GTCTCAGCAGCTGCCCGATGGTCAGAGTCTTCCAAATACCTCCGTCATCTGCGCCGAAC	552
DB	257 GAAACAAAGAGCTCCCTGATGGCTCGGAGATCCCGCTCCCTTCTTCTGCTCGGAGGC	316
QY	553 TGGGAGCGGATCCACAGAAAGGACCGTGTCTTACGGCCACTTGGACGTGACGCTGG	612
DB	317 TGGGCTCCGACCCACAGAAAGAGACCGTGTGTCATTTACGGGCACTGTGATGTGACGCTGG	376
QY	613 CTGACCGGGGGGATGGGTGGCTCA	636
DB	377 CAGCCCTGGAGACGGCTGTGACA	400
RESULT 106		
AAQ98684		
ID	AAQ98684 standard; cDNA; 273 BP.	
XX	AAQ98684;	
AC	20-DEC-1995 (first entry)	
DT	Tr22-GSE.	
DE	Genetic suppressor element; Tr19-GSE; fibroblast; tumorigenesis;	
XX	retrovirus; tumor; cancer; gene therapy; ss.	
XX	Mus sp.	
OS	WO9523855-A2.	
PN	08-SEP-1995.	
XX	01-MAR-1995; 95WO-US002521.	
PF	02-MAR-1994; 94US-00204740.	
XX	(UNII ) UNIV ILLINOIS FOUND.	
PA	Gudkov A, Kazarov A, Mazo I, Roninson IB;	
PI	WPI; 1995-320570/41.	
XX	Isolation of genetic suppressor elements (GSEs) - useful in diagnostic	
PT	assays for determining GSE mRNA expression levels and in the treatment of	
PT	malignant cancers.	
XX	Example 2; Fig 16; 61pp; English.	
XX	Retrovirus pLNCX particles contg. a normalized random mouse NIH3T3 cDNA	
CC	library were used to transfect virus-packaging NIH3T3 fibroblasts. These	
CC	were inoculated into BALB/c nude mice and tumor-bearing mice were then	
CC	selected. Virus was rescued from the tumors and inserts (putative	
CC	tumorigenic GSEs) were sequenced. cDNA insert Tr22-GSE represents a	
CC	fragment of a novel gene	
XX	Sequence 273 BP; 59 A; 69 C; 101 G; 44 T; 0 U; 0 Other;	
SQ		
Query Match	4.3%; Score 96.4; DB 2; Length 273;	
Best Local Similarity	64.1%; Pred. No. 3.2e-11;	
Matches	177; Conservative 0; Mismatches 96; Indels 3; Gaps 2;	
QY	427 GAATGATGCGGTGGCTGGGACACGCTGCAGCGCTGGGGGCCCTGTGCGCTCGGTGG	486
DB	1 GGATGATGAGGTGGGAGCTGCCGATGTCCAGAGGCTGGGGGGCTCCGTGGAACCTGGTG	60
QY	487 ACATGGTCTCTCAGCAGCTGCCGATGGTCCAGAGTCTTCCAAATACCTCCGTCATCTGG	546
DB	61 ATATCGGAAGCAGAAAGCTCCAGATGGCTCGGAGATACCACTTCTCCCATC--TGCTGG	118
QY	547 CCAACTGGGGAGCGATCCACGAAAGGACCGTGTGCTTCTACGCCCACTTGGAGCTGC	606
DB	119 GCAAGCTAGCAGCGACCCGCCAGAAACCCGTGTGCAATTACGGGCACTTGGACGTGC	178
QY	607 AGCTGTCTGACCCGGGGCGATGGGTGGCTCACGGACCCCTATGTGCTGACGGAGGTAGACG	666
DB	179 AGCTTGC-GCCCTGGAGGACGGGTGGGACAGCGAGCCCTTACCTTGGTGGAGCGGGAAG	237

Qy 667 GGAACCTTTATGACGAGGCGCGACCAACAAG 702  
DB 238 GCAAGCTGTATGGAGAGGCTCCAGGACGATAAGG 273

## RESULT 107

ACA24244  
ID ACA24244 standard; DNA; 1320 BP.

XX ACA24244;

XX 19-JUN-2003 (first entry)

XX Prokaryotic essential gene #5901.

XX Antisense; ds; prokaryotic essential gene; cell proliferation;  
KW drug design; gene.

XX Bacteroides fragilis.

XX WO200277193-A2.

XX 03-OCT-2002.

XX 21-MAR-2002; 2002WO-US009107.

XX 21-MAR-2001; 2001US-00815242.

XX 06-SEP-2001; 2001US-00948993.

XX 25-OCT-2001; 2001US-0342923P.

XX 08-FEB-2002; 2002US-00072851.

XX 06-MAR-2002; 2002US-0362699P.

XX (ELIT-) ELITRA PHARM INC.

XX Wang L, Zamudio C, Malone C, Haselbeck R, Ohlsen KL, Zyskind JW;  
PI Wall D, Trawick JD, Carr GJ, Yamamoto R, Forsyth RA, Xu HH;

XX WPI; 2003-029926/02.

XX P-PSDB; ABU20374.

XX New antisense nucleic acids, useful for identifying proteins or screening  
PT for homologous nucleic acids required for cellular proliferation to  
PT isolate candidate molecules for rational drug discovery programs.

XX Claim 14; SEQ ID NO 12114; 1766pp; English.  
XX The invention relates to an isolated nucleic acid comprising any one of  
CC the 6213 antisense sequences given in the specification where expression  
CC of the nucleic acid inhibits proliferation of a cell. Also included are:  
CC (1) a vector comprising a promoter operably linked to the nucleic acid  
CC encoding a polypeptide whose expression is inhibited by the antisense  
CC nucleic acid; (2) a host cell containing the vector; (3) an isolated  
CC polypeptide or its fragment whose expression is inhibited by the  
CC antisense nucleic acid; (4) an antibody capable of specifically binding  
CC the polypeptide; (5) producing the polypeptide; (6) inhibiting cellular  
CC proliferation or the activity of a gene in an operon required for  
CC proliferation; (7) identifying a compound that influences the activity of  
CC the gene product or that has an activity against a biological pathway  
CC required for proliferation, or that inhibits cellular proliferation; (8)  
CC identifying a gene required for cellular proliferation or the biological  
CC pathway in which a proliferation-required gene or its gene product lies  
CC or a gene on which the test compound that inhibits proliferation of an  
CC organism acts; (9) manufacturing an antibiotic; (10) profiling a  
CC compound's activity; (11) a culture comprising strains in which the gene  
CC product is overexpressed or underexpressed; (12) determining the extent  
CC to which each of the strains is present in a culture or collection of  
CC strains; or (13) identifying the target of a compound that inhibits the  
CC proliferation of an organism. The antisense nucleic acids are useful for  
CC identifying proteins or screening for homologous nucleic acids required  
CC for cellular proliferation to isolate candidate molecules for rational  
CC drug discovery programs, or for screening homologous nucleic acids  
CC required for proliferation in cells other than *S. aureus*, *S. typhimurium*,

CC K. pneumoniae or *P. aeruginosa*. The present sequence is one of the target  
CC prokaryotic essential genes. Note: The sequence data for this patent did  
CC not form part of the printed specification, but was obtained in  
CC electronic format directly from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences

XX SQ Sequence 1320 BP; 398 A; 274 C; 317 G; 331 T; 0 U; 0 Other;

Query Match 4.2%; Score 95; DB 8; Length 1320;

Best Local Similarity 47.0%; Pred. No. 1.1e-10;

Matches 400; Conservative 0; Mismatches 440; Indels 11; Gaps 3;

Qy 561 GATCCACGAAAGCGACCGGTGCTTCTACGGCCACTTGGACGTGCGACCTGCTGACCGG 620

DB 181 GATCCGAATGCTAAACAGGTGTGATATACGCTCATTTATGACGTGATGCTGCCGAGCC 240

Qy 621 GGGATGGGTGGCTCAGGACCCCTATGCTGACGGAGGTAGACGGGAACTTTATGGA 680

DB 241 CTCGACCTGTGGAAGAGCCCAACCGTTTCGAACCGGAATACGTGACGGACATATTTGGCG 300

Qy 681 CGAGGAGCGACCGACCAACAAAGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCGCTTC 740

DB 301 CGCGAGCCGACGATGATAAGGACAAAGCAATTTATCCAGGTGAAGCATTTGAATATCTC 360

Qy 741 AGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATTTAGGGGATGGAAGAG 800

DB 361 GTAA---AATATAACCTGCTGGAGATAACGTAAGTTTATCTTTGAGGGAAGAAGAG 417

Qy 801 GCTGGCTCTGTCCTCGGAGGAACCTTGTGGAAGAAAGAAAGCCGATTTCTTCTGCT 860

DB 418 ATTGGTTTCAACAAAGCCTGGAAGCTTTCTGTGAAGACATAAAGAAATTTACTAAAAAGCCGAT 477

Qy 861 GTGAGCTACATTTGTAATTTTCAGATAACCTCTGTGATCAGCCAGCAAGAGCAACCACT 920

DB 478 GTTATCTTGGTATCAGATACCATGTTGTTGGGCGCACCTT-----CCTTCACTAAC 531

Qy 921 TATGGAAACCGGGGGAACAGCTACTTTCATGTTGGAGGTGAATTCAGAGACCAAGATTTT 980

DB 532 ACCGAGCTGCTGCTGCTGCTTACTGGGAAATCGAATAACAGGTCTCTAACCGTGACCTC 591

Qy 981 CACTCAGGAACCTTTGGTGGCACTCTTCATGAACCAATGGCTGATCTGGTCTCTCTCTC 1040

DB 592 CATTCGGGACACTTTGGTGGAGCGGTAGCCCAATCCGATCAACGTACTTTTGTGGTATGTA 651

Qy 1041 GGTAGCCTGTAGACTGCTCTGTGTCATATCTGCTCCCTGGAATCTATGATGAAGTGTT 1100

DB 652 AGTAAGGTAATGATACCGGACGATCACATACCCGATTTCTATGATGCTGTAGAA 711

Qy 1101 CCTCTTACAGAAGAGGAAATAAATACATACAAAGCCATCCATCTAGACCTAGAGAATAC 1160

DB 712 GAAGTTCCACAGCAGAACGAGAAATGATTGCCACATCCCTTTTAAATGAAGAAATAT 771

Qy 1161 CGGAATAGACCGGGTTGAGAAATTTCTGTTGATCTAAGGAGGAGATCTTAATGCAC 1220

DB 772 AAGGAAGCCATCGAGTAAAGAAACCTTTCCGTTGAGAAAGGATACAGCACTCTCGAAGA 831

Qy 1221 CTCTGGAGGTACCATCTCTTTCTATTATGAGGATCGAGGCGGCTTTGATGAGCCCTGGA 1280

DB 832 AACAGTTGAGGCTTCATTCGACATTTGTTGATTTTGGGAGGTTACACCGGGAAGGT 891

Qy 1281 ACTAAAAACAGTCATACCTGGCCGAGTTATAGGAAATTTTCAATTCGCTAGTCCCTCAC 1340

DB 892 TCTAAAACTGACTCTCCCTTCCAAAGCCATATGCCAAGTATCATGCGCGCTGGTTCCCAT 951

Qy 1341 ATGATGTGTCTGGGTGGGAAACAGGTGAC--ACGACATCTTGAAGATGTGTTCTTCCA 1398

DB 952 CAAGATCATCATGTGATCTCAAAACCTTTTGTGCTACTACATCCGCGCAGATCGCTCTGCT 1011

Qy 1399 AAAGAAATAGT 1409

DB 1012 ACGTAGAAGT 1022

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RESULT 108
AAC18056
XX AAC18056 standard; cDNA; 334 BP.
XX AC
XX AAC18056;
XX DT
XX 06-OCT-2000 (first entry)
XX DE
XX Human secreted protein 5' EST, SEQ ID NO: 22131.
XX KW
XX Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
XX KW gene therapy; chromosome mapping; ss.
XX OS
XX Homo sapiens.
XX PN
XX EP1033401-A2.
XX PD
XX 06-SEP-2000.
XX XX
XX 21-FEB-2000; 2000EP-00200610.
XX PF
XX 26-FEB-1999; 99US-0122487P.
XX PR
XX (GEST ) GENSET.
XX PA
XX Dumas Milne Edwards J, Duclert A, Giordano J;
XX PI
XX WPI; 2000-500381/45.
XX DR
XX
XX The present sequence is one of a large number of 5' ESTs derived from
XX CC mRNAs encoding secreted proteins. No ORF has yet been conclusively
XX CC identified within the present sequence. The 5' ESTs were prepared from
XX CC total human RNAs or polyA+ RNAs derived from 30 different tissues. EST
XX CC sequences usually correspond mainly to the 3' untranslated region (UTR)
XX CC of the mRNA because they are often obtained from oligo-dT primed cDNA
XX CC libraries. Such ESTs are not well suited for isolating cDNA sequences
XX CC derived from the 5' ends of mRNAs and even in those cases where longer
XX CC cDNA sequences have been obtained, the full 5' UTR is rarely included. 5'
XX CC ESTs are derived from mRNAs with intact 5' ends and can therefore be used
XX CC to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in
XX CC diagnostic, forensic, gene therapy and chromosome mapping procedures.
XX CC They are used to obtain upstream regulatory sequences and to design
XX CC expression and secretion vectors
XX
XX Sequence 334 BP; 80 A; 85 C; 43 G; 123 T; 0 U; 3 Other;
XX
Query Match 4.1%; Score 92.2; DB 3; Length 334;
Best Local Similarity 95.9%; Pred. No. 2.9e-10;
Matches 94; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 2090 CGTGACATCAATTCATCCATCAATGATCGCTTTCCTTACCACTCTTCTTTATC 2149
DB 1 CGTGACATCAATTCATCCATCAATGATCGCTTTCCTTACCACTCTTCTTTATC 60
QY 2150 TTATTATAAAATGTTGGTCTCCACCACCTGCTCCCA 2187
DB 61 TTATTATAAAATGTTGGTCTCCACCACCTGCTCCCA 98
RESULT 109
AAC94036
XX AAC94036 standard; cDNA; 550 BP.
XX AC
XX AAC94036;
XX DT
XX 19-FEB-2001 (first entry)
XX
DE
XX Cat flea hindgut and Malpighian tubule (HMT) cDNA, SEQ ID NO:531.
XX KW
XX Cat flea; hindgut and Malpighian tubule nucleic acid; HMT;
XX KW flea infestation; vaccine; antiparasitic; therapeutic target; diagnosis;
XX KW detection; ss.
XX OS
XX Ctenocephalides felis.
XX PN
XX WO200061621-A2.
XX XX
XX 19-OCT-2000.
XX PF
XX 07-APR-2000; 2000WO-US009437.
XX PR
XX 09-APR-1999; 99US-0128704P.
XX PA
XX (HESK-) HESKA CORP.
XX PI
XX Brandt KS, Gaines RJ, Stinchcomb DT, Wisniewski N;
XX XX
XX WPI; 2000-656323/63.
XX DR
XX
XX Flea Malpighian tubule and head and nerve cord tissue derived nucleic
XX PT acids useful for the prevention, diagnosis and treatment of flea
XX PT infestations.
XX XX
XX Claim 26; Page 421; 964pp; English.
XX
XX The invention relates to novel cat flea (Ctenocephalides felis) nucleic
XX CC acids which are expressed in hindgut and Malpighian tubule (HMT) tissue
XX CC or head and nerve cord (HNC) tissue. The invention also relates to the
XX CC encoded proteins. The invention additionally encompasses expression
XX CC constructs, recombinant viruses and recombinant cells comprising the
XX CC nucleic acids of the invention, recombinant production of the proteins,
XX CC antibodies against the proteins, a method of identifying inhibitors of
XX CC administration to an animal. The nucleic acids, and the proteins they
XX CC encode may be used in the prevention, treatment and diagnosis of diseases
XX CC associated with flea infestations. For example, the nucleic acids may be
XX CC used to produce an HMT or HNC protein according to standard recombinant
XX CC DNA methodology by inserting the nucleic acids into a host cell and
XX CC culturing the cell to express the protein. The HMT and HNC nucleic acids
XX CC may also be used as DNA probes in diagnostic assays (e.g., PCR) to detect
XX CC and quantitate the presence of cat flea or other homologous nucleic acid
XX CC sequences in samples. They may also be used to study the expression and
XX CC function of the proteins and their role in metabolism. The HMT and HNC
XX CC proteins may be used as antigens in the production of specific
XX CC antibodies, and in assays to identify modulators (agonists and
XX CC antagonists) of HMT and/or HNC protein expression and activity. The anti-
XX CC HMT/HNC protein antibodies and antagonists may also be used to
XX CC downregulate protein expression and activity. The antibodies may also be
XX CC used as diagnostic agents for detecting the presence of flea polypeptides
XX CC in samples (e.g., by enzyme linked immunosorbent assay (ELISA)). The
XX CC present sequence represents a cat flea HMT cDNA of the invention
XX
XX Sequence 550 BP; 182 A; 84 C; 133 G; 151 T; 0 U; 0 Other;
XX
Query Match 4.1%; Score 92.2; DB 3; Length 550;
Best Local Similarity 52.9%; Pred. No. 3.3e-10;
Matches 243; Conservative 0; Mismatches 213; Indels 3; Gaps 2;
QY 320 GTACATTGACCTCCATCAGGATGAAATTTGTGCAGACGCTGAGGAGTGCGGCATCGA 379
DB 53 GTTCACCCACATCGACCAAGATAAGAAAGGTACATTGATGATTATCTGAAGCTGTAGC 112
QY 380 GAGCGACTCTGTCCAGCCCTGTGCGCTTCAGACAAGAGCTCTTCAGAAATGATGCCGT 439
DB 113 AATCAAAATCAGTGTGCGCATGGCAGACAGATCGACAGAAGTGTGTTAAATGTTAAATG 172
QY 440 GGCTCGGACACGCTGACAGCGCTCGGGGCCGCTGTGGCTCGGTGGACATCGGTCCTCA 499
DB 173 GGCTGAACAACGATTTGAGGCTCTCGGCGCAACCAACAGAAATTAGCAGATGTTGSAACA 232

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QY 500 GCAGCTGCCGATGTCAGAGTCTTCCAAATACCTCCCGTCTGCGCGCAACTGGGAG 559  
 Db 233 AACTCTCCAGAGCGCAGAGTATTGACTTACCTCCAGTATTGCTGGGTCACTGGGAAA 292  
 QY 560 CGATCCACGAAAGCACCCTGCTTCTACGGCCACTTGGACGTGCGAGCTGCTGACCG 619  
 Db 293 TGATCTTAAACAAATATGGTATGTTGTATGGACATTTAGATGTTACAGCCAGCTCTGAA 352  
 QY 620 GGGCGATGGGTGCTACGGACCCCTATGCTGACGGAGGTAGACGGGAACTTTATGG 679  
 Db 353 AGAAGATGGTGGGATCTAGAACCACTTTGATGACTGAGAAAGATGGAATAATTATGG 412  
 QY 680 ACGAGGACGACCGACAAAGGCCCTGCTTGGCTTTGGATCAATGCTGAGCGCCTT 739  
 Db 413 TAGAGGAGCTAGTGATGACAAAGGCTCCTTATCGG--TGGATTATGCAAT--TGAGGCTT 469  
 QY 740 CAGAGCCCTGAGCAAGATCTTCTGTCGAATATCAAAAT 778  
 Db 470 ATCAACAGACTGACAAAGATTTACCAGTTAATCAATCAAAAT 508

## RESULT 110

ABX05764

ID ABX05764 standard; DNA; 1371 BP.

XX AC ABX05764;

XX DT 27-OCT-2003 (revised)

XX DT 11-FEB-2003 (first entry)

XX S. pneumoniae type 4 strain coding region #52.

XX Gene; ds; bacterial meningitis; pneumonia; sepsis; otitis media;

XX KW ear infection; anti-inflammatory; antibacterial; immunostimulant;

XX KW auditory; respiratory; gene therapy; vaccine.

XX OS Streptococcus pneumoniae; type 4 strain.

XX WO200277021-A2.

XX 03-OCT-2002.

XX 27-MAR-2002; 2002WO-IB002163.

XX 27-MAR-2001; 2001GB-00007658.

XX (CHIR-) CHIRON SPA.

XX (GENO-) INST GENOMIC RES.

XX Masignani V, Tettelin H, Fraser C;

XX WPI; 2003-040579/03.

XX P-PSDB; ABU00485.

XX New proteins and nucleic acid molecules from Streptococcus pneumoniae,

XX useful as medicaments for treating or preventing a disease or infection

XX due to streptococcus bacteria, such as pneumonia, sepsis, otitis media or

XX ear infection.

XX Claim 6; SEQ ID NO 103; 56pp; English.

XX The invention relates to a protein comprising or having at least 50%

XX identity to any of the 2469 amino acid sequences, identified in the

XX specification (available on a computer readable format), or its fragment,

XX expressed from 2469 of 2489 identified DNA coding regions from the

XX Streptococcus pneumoniae type 4 strain genomic sequence appearing as

XX AB56454. Also included are an antibody which binds one of the proteins,

XX treating a patient by administering the protein, DNA or antibody (in a

XX composition), a kit comprising first and second primers, which are the

XX nucleic acid cited above or fragments between nucleotides 8-100 of a

XX sequence not defined in the specification, for amplifying a target

XX sequence contained within a Streptococcus nucleic acid sequence, where

XX the first primer is substantially complementary to the target sequence

CC and the second primer is substantially complementary to the complement of  
 CC the target sequence, and where the parts of the primers having  
 CC substantial complementarity define the termini of the target sequence to  
 CC be amplified, assay comprising contacting a test compound with the  
 CC protein, and determining whether the test compound binds to the protein  
 CC and a streptococcus pneumoniae bacterium, where one or more genes  
 CC encoding the proteins has been rendered inactive. The proteins, nucleic  
 CC acid molecules, antibody and compositions are useful as medicaments for  
 CC treating or preventing a disease or infection due to streptococcus  
 CC bacteria, particularly S. pneumoniae, such as pneumonia, sepsis, otitis  
 CC media or ear infection. They are also useful in developing vaccines,  
 CC diagnostics and antibiotics. The methods are useful for identifying  
 CC immunodominant proteins. The present sequence is one of the 2489  
 CC identified coding region from the genomic sequence. Note: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format directly from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences. (Updated on 27-OCT-2003 to  
 CC standardise OS field)  
 XX

SQ Sequence 1371 BP; 376 A; 265 C; 368 G; 362 T; 0 U; 0 Other;

Query Match 3.8%; Score 85.8; DB 10; Length 1371;

Best Local Similarity 46.7%; Pred. No. 1.1e-08;

Matches 381; Conservative 0; Mismatches 422; Indels 12; Gaps 3;

QY 576 ACCGTGTGCTTCTACGGCCACTTGGACGTGTCAGCCTCTGACGGGCGATGGGTGGCTC 635  
 Db 250 ACCTTGATTTTCTATACCACTATGACACTGTGCCAGGGATGGGGATCAGGCTGGACA 309  
 QY 636 ACGGACCCCTATGTGTGACGGAGGTAGACGGGAACTTTATGACGAGGAGCCACCGAC 695  
 Db 310 GAGGATCCTTTACGCTTTCCGTCGCAATGGCTTCATGTATGGCGTGGGTTGATGAC 369  
 QY 696 AACAAAGCCCTGCTTGGCTTGGATCAATGCTGTGAGCGCTTCAGAGCCCTGGAGCAA 755  
 Db 370 GACAAAGGTATATACAGCTCGCTTGAGTGTCTTGAGAAATAATATATGACACCATGAT 429  
 QY 756 GATCTTCTGTGAATATCAAAATTCATCATTTGAGGGGATGGAAGAGGCTGCTGTGGCC 815  
 Db 430 GATTTACCTGTCAATATCAGCTTTATCATGAGGGGAGGAGGATCGGCTTCAACAGAC 489  
 QY 816 CTGGAGGAACTTGTGGAAAAGAAAGGACCGATTTCTTCTGTGTGGACTACATGTA 875  
 Db 490 CTAGATAAGTATTGGAAAAGCATGCAGACAAA---CTCCGTGGGGCGGATTTGTTGTC 546  
 QY 876 ATTCAGATAACCTGTGGATCAGCCAAAGAGCCAGCAATCACTTATGAAACCCGGGG 935  
 Db 547 TGGGAACAGGGACCAAAAATGCCCTTGGAAACAGCTGGAAAATTTCTGTGGCAATTAAGGG 606  
 QY 936 AACAGCTACTTTCATGTTGGAGGTGAAATGACAGACCCAGGATTTTCACTCAGGAACCTTT 995  
 Db 607 ATGTGACCTTTGATGCCAAGGTAAAGGCGGTGATGTGGATATCCACTCAGTTATGGT 666  
 QY 996 GGTGGCATCTTTCATGAACCAATGGCTGATCTGGTTGCTCTTCTCGGTAGCTGGTAGAC 1055  
 Db 667 GGTGTTGTGGAATCAGCTCCTTGTATCTCTCCAAGCCTTACAGTCTCTTCTGGTGTG-- 724  
 QY 1056 TCGTCTGGTATATCTCTGGTCCCTGGAATCTATGATGAAGTGGTTCCTCTTACAGAGAG 1115  
 Db 725 -CGGATGGCCGTATCTTGTGGAAGGCTTGTACGAAGAGTACAAAGACCCCAATGAACGA 783  
 QY 1116 GAAATAAATACATACAAAGCCATCCATCTAGACTAGAGAAATACCGGAATAGCAGCCGG 1175  
 Db 784 GAAATGGCCCTTGTAGAAACTTTATGTCACAGAAACCCAGAGGAGTATGTGCGATTAT 843  
 QY 1176 GTTGAGAAATTTCTGTTTCGATCTACTAAGGAGGAGA-----TTCTAATGCACTCTGGAGG 1229  
 Db 844 GGATTTGGAGTTGCTCTCTTACAGGAGGACGGATGGCCCTTTCTAAAACGCTTCTTTTC 903  
 QY 1230 TACCATCTCTTCTTATTTATGATGGATCGAGGGCGGCTTTGATGAGCCTTGAACATAAACA 1289  
 Db 904 GATCCAGCGCTTAATATCGAAGGAATCCAGTCTGGTTATCAAGTTCAGGCTGTTAAGACT 963



Qy	1290	GT	CATACCTGGCCGAGTTATAGGAAAAATTTTCAATCCGTCTAGTCCTCATGAATGTG	1349
Db	964	ATTTTACCTGCAGAAGCCAGTGCACAGCTAGAGGTTCCGTCTGTTCGGGGCTAGAACCG	1023	
Qy	1350	TC	TGCGGTGGAAAAACAGAGGTGACACGACATCTTGA	1384
Db	1024	CAT	GATGTTCTGGAAAAAATTCGGAAACAGCTAGA	1058
RESULT 111				
ADM91824				
ID	ADM91824 standard; DNA; 1371 BP.			
XX	AC	AC	AC	
XX	ADM91824;			
DT	03-JUN-2004 (first entry)			
XX	S pneumoniae antigenic protein-encoding gene sequence SeqID21.			
DE	antibacterial; gene therapy; Streptococcus pneumoniae infection;			
XX	antigenic; gene; ds.			
KW	Streptococcus pneumoniae.			
XX	WO2004020609-A2.			
PN	11-MAR-2004.			
PD	02-SEP-2003; 2003WO-US027401.			
XX	30-AUG-2002; 2002US-0407082P.			
PR	(TUFT ) UNIV TUFTS.			
XX	Camilli A, Hava DL;			
PI	WPI; 2004-239189/22.			
XX	P-PSDB; ADM92061.			
DR	New Streptococcus pneumoniae nucleic acid molecules, useful for			
PT	diagnosing, treating and preventing active infections of Streptococcus			
PT	pneumoniae.			
XX	Claim 1; SEQ ID NO 21; 123pp; English.			
PS	This invention relates to novel isolated Streptococcus pneumoniae nucleic			
CC	acid molecules and the antigenic polypeptides encoded by them. The			
CC	invention may be useful for the production of compounds with an			
CC	antibacterial activity or for gene therapy. The nucleic acid molecules,			
CC	compositions and methods disclosed are useful for treating Streptococcus			
CC	pneumoniae infection. The present sequence is that of an S pneumoniae			
CC	gene of the invention.			
XX	Sequence 1371 BP; 376 A; 265 C; 368 G; 362 T; 0 U; 0 Other;			
SQ	Query Match 3.8%; Score 85.8; DB 12; Length 1371;			
	Best Local Similarity 46.7%; Pred. No. 1.1e-08;			
	Matches 381; Conservative 0; Mismatches 422; Indels 12; Gaps 3			
Qy	576	AC	CGTGTGCTTCTACGCCACCTTGGACGTGACCGCTGCTGACCGGGCGATGGGTGGCTC	635
Db	250	AC	CTTGATTTTCTATACCACTATGACATGTGCCAGCGGATGGGATCAGGCTTGERCA	309
Qy	636	AC	GACCCCTATGTGCTGACGGAGGTAGACGGGAACTTTATGACGAGGACGACCGAC	695
Db	310	GAG	GATCCTTTTACGCTTTCCGTCGCGCAATGGCTTCATGTATGGCGTGGGTTGATGAC	369
Qy	696	ACA	AAGCCCTGCTTGCTTGCTTGGATCAATGCTGTGAGCGCTTCAGAGCCCTGGAGCAA	755
Db	370	GACA	AGGGTCATATCACAGCTCGTTGAGTGCTTTGAGAAATATATGCAGCACCATGAT	429
Qy	756	GAT	CTCTCTGTGAATATCAAAATTCATTTGAGGGGATGGAAGAGGCTCTGTGTGCC	815

Db	430	GA	TTTACCTGTCTCAATATCAGCTTTATCATGGAGGAGCGGGAATTCGGCTTCAACAGAC	489
Qy	816	CT	GGAGGAACTTGTGGAAAAAGAAAGAGCCGATTTCTCTGGTGTGGACTACATTGTA	875
Db	490	CT	AGATAAGTATTTGGAAAGCATGCGACAAA---CTCGTGGGGCGGATTTGTTGGTC	546
Qy	876	ATT	TCAGATAA	935
Db	547	TGG	AAACAAGGACCAAAATGCTTTGGAACAGCTTGGAAATTTCTGGTGGCAATAAGGG	606
Qy	936	AA	CAGCTACTTTCATGGTGGAGGTGAAATCCAGAGACCAGATTTTCACTCAGGAACCTTT	995
Db	607	ATT	GTACCTTTGATGCCAAGGTAAAAAGCGCTGATGTGGATATCCACTCGAGTTATGGT	666
Qy	996	GGT	GGCATCTTTCATGAACCAATGGCTGATCTGGTTGCTCTTCTCGGTAGCCTGGTAGAC	1055
Db	667	GGT	GTGTTGTGGAATCAGCTCTCTTGGTATCTCCTCCAAGCCTTACAGTCTCTTCTGGCTG--	724
Qy	1056	TC	GCTGTGGTCATATCCTGTGCTCCCTGGAACTTATGATGAAGTGGTTCCTCTTACAGAAAG	1111
Db	725	-CG	ATGGCGGTATCTTGGTTGAAGGCTTGTACGAAGAAGTACAAGAGCCCAATGAACGA	783
Qy	1116	GAA	ATAAATACATACAAAGCCATCCATCTAGACCTAGNAGAAATACCGGAATAGCAGCCGG	1175
Db	784	GAA	ATGCCCTTGTAGAAACTTATGTGTCACGAAACCCAGAGGAAGTTAGTCGATTTAT	843
Qy	1176	GT	TGAGAAATTTCTGTTTCGATACTAAAGGAGGAGA-----TTCTAATGCACTCTCGAGG	1229
Db	844	GA	ATTGGAGTGGCTCTCTTACAGGAGGAGCGGATGGCTTTCTTAAACGTTTCTTTTC	903
Qy	1230	TAC	CAATCTCTTTCTATTCATGGGATCGAGGCGCGTTTGATGAGCTCGAACTAAACA	1289
Db	904	GAT	CCAGCGCTTAATATCGAAGGAATCCAGTCTGGTTATCAAGTCAAGGTGTTTAAAGCT	963
Qy	1290	GT	CATACCTCGCGGAGTTATAGGAAATTTTCAATCGTCTAGTCCCTCAGATGAATGTG	1349
Db	964	ATT	TTTACCTGCAGAGCCAGTGCCTCAAGCTAGAGGTTGCTCTGGTTCGGGCTAGAACCG	1023
Qy	1350	TC	TGCGGTGAAAAACAGGTGACACGACATCTTGA	1384
Db	1024	CAT	GATGTTCTGGAAAAAATTCGGAACAGCTAGA	1058
RESULT 112				
ABZ42150				
ID ABZ42150 standard; DNA; 1389 BP.				
XX ABZ42150;				
XX AC				
XX DX				
XX DT 04-MAR-2003 (first entry)				
XX DE Streptococcus pneumoniae polynucleotide SEQ ID NO 4.				
XX KW Streptococcus pneumoniae; infection; otitis media; antibacterial;				
XX KW diagnosis; gene therapy; gene; ds.				
XX OS Streptococcus pneumoniae.				
XX FN WO200283855-A2.				
XX PD 24-OCT-2002.				
XX PF 12-APR-2002; 2002WO-US011524.				
XX PR 16-APR-2001; 2001US-0283948P.				
XX PR 18-APR-2001; 2001US-028443P.				
XX PA (AMCY ) AMERICAN CYANAMID CO.				
XX PI Zagursky RJ, Masi AW, Green BA, Chakravarti DN, Russell DP;				
XX PI Wooters JL;				
XX DX WPI; 2003-093010/08.				



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QY 576 ACCGTGCTTCTACGCCACCTTGGACGCTGCTGACCGGGCGATGGGTGGCTC 635
Db 1233 ACCTTGATTTTCTATACCACTATGACACTGTGCCAGCGATGGGACTCAGGTCTGGACA 1292
QY 636 ACCGACCCCTATGCTGACGCGAGGTAGACGGGAACTTTATGGACGAGGAGCGACCGAC 695
Db 1293 GAGGATCCCTTTACGCTTTCCGGTCCGCAATGGCTTCATGTATGGGCGTGGGTGTATGAC 1352
QY 696 AACAAAGCCCTCTCTTGGCTTGGATCAATCTGTGTAGGCCCTTCAGAGCCCTTGGAGCAA 755
Db 1353 GACAAGGGTCAATACAGCTCGCTTGGAGTCTTGGAGAAATATATGACGACCACTATGAT 1412
QY 756 GATCTCTCTGTGATATCAAAATTCATCTTGGGGATGGAAGAGCTGGCTCTGTGGC 815
Db 1413 GATTTACCTTCAATATACGCTTTATCATGGAGGAGCGGAGGAATCGGCTTCAACAGAC 1472
QY 816 CTGGAGGAACCTTCTGGAAGAAAGGACCGGATTTCTTCTGCTGTGCACTACATTTGA 875
Db 1473 CTAGATAAGCTATTTGGAAAGCATGCAGACAAA--CTCGTGGGGCGGATTTGTTGGTC 1529
QY 876 ATTTAGATTAACCTGTGGATTCAGCCAAAGGAAGCAATCACTTATGGAACCCGGGG 935
Db 1530 TGGGAACAGGGACCAAAATGCTTGGAAACAGCTGGAATTTCTGTGGCAATAAGGG 1589
QY 936 AACAGCTACTTTCATGTGGAGGTGAATGCAGAGCAGGATTTTCACTCAGGAACCTTT 995
Db 1590 ATTGTGACCTTTGATGCCAAGGTAAAGAGCGTGTGGATATCACTCGAGTTATGGT 1649
QY 996 GGTGGCATCTTTCATGAACCAATGGCTGATCTGGTCTTCTCGGTAGCCCTGGTAGAC 1055
Db 1650 GGTGTTGTGAATCAGCTCTTGTGATCTCTTCCAGCCCTTACAGTCTCTTCTGTGCTG-- 1707
QY 1056 TCGTCTGGTCAATCTCTGTCCTTGGAACTATGATGAAGTGTCTCTTACAGAAAG 1115
Db 1708 -CGGATGGCGCTATCTTGTGTAAGGCTTGTACGAAGAAGTACAGAGGCCAATGAACGA 1766
QY 1116 GAATAAATACATACAAAGCCATCCATCTAGACCTAGAGAAATACCGGAATAGCAGCCGG 1175
Db 1767 GAATGGCCTTGTAGAACTTATGTTCAACGAACCCAGAGGAAGTTAGTCGGATTTAT 1826
QY 1176 GTTGAGAAATTTCTGTTCCGATCTAAGGAGGAGA-----TTCTAATGACCTCTCGAGG 1229
Db 1827 GGATTTGGAGTTGCTCTCTTTACAGGAGGCGGATGGCTTCTTAAACGTTTCTTTTTC 1886
QY 1230 TACCACTCTTCTTATTCATGGATTCAGGGCGGCTTTGATGAGCCTGGAACATAAACA 1289
Db 1887 GATCCAGCGCTTAATATCGAAGGAATCCAGTCTGTTATCAAGGTGAGGGTGTAAAGACT 1946
QY 1290 GTCATACCTGGCGGAGTTATAGAAATTTTCAATCCGTCTAGTCCCTCACATGAATGTG 1349
Db 1947 ATTTTACCTGCAGAACCCAGTGCACAGCTAGAGTTCTGTTCTGGGCTTAGAACCG 2006
QY 1350 TCTGCGGTGGAACAAACAGGTGACACGACATCTTGA 1384
Db 2007 CATGATGTTCTGGAAGAAATTCGGAACACAGCTAGA 2041

RESULT 114
ABS56454_00
WP Sequence split into 22 fragments LOCUS ABS56454 Accession ABS56454
WP Fragment Name Begin End
WP ABS56454_00 1 110000
WP ABS56454_01 100001 210000
WP ABS56454_02 200001 310000
WP ABS56454_03 300001 410000
WP ABS56454_04 400001 510000
WP ABS56454_05 500001 610000
WP ABS56454_06 600001 710000
WP ABS56454_07 700001 810000
WP ABS56454_08 800001 910000
WP ABS56454_09 900001 1010000
WP ABS56454_10 1000001 1110000
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WP ABS56454_11 1100001 1210000
WP ABS56454_12 1200001 1310000
WP ABS56454_13 1300001 1410000
WP ABS56454_14 1400001 1510000
WP ABS56454_15 1500001 1610000
WP ABS56454_16 1600001 1710000
WP ABS56454_17 1700001 1810000
WP ABS56454_18 1800001 1910000
WP ABS56454_19 1900001 2010000
WP ABS56454_20 2000001 2110000
WP ABS56454_21 2100001 2162598
ID ABS56454 standard; DNA; 2162598 BP.
XX
AC ABS56454;
DT 27-OCT-2003 (revised)
DT 10-FEB-2003 (first entry)
XX
XX Streptococcus pneumoniae type 4 strain complete genome.
XX
XX ds; bacterial meningitis; pneumonia; sepsis; otitis media; genome;
XX ear infection; antiinflammatory; antibacterial; immunostimulant;
XX auditory; respiratory; gene therapy; vaccine.
XX
XX Streptococcus pneumoniae; type 4 strain.
XX
XX WO200277021-A2.
XX
XX 03-OCT-2002.
XX
XX 27-MAR-2002; 2002WO-IB002163.
XX
XX 27-MAR-2001; 2001GB-00007658.
XX
XX (CHIR-) CHIRON SPA.
XX (GENO-) INST GENOMIC RES.
XX
XX Masignani V, Tettelin H, Fraser C;
XX WPI; 2003-040579/03.
XX
XX Claim 17; SEQ ID NO 4979; 56pp; English.
XX
XX The invention relates to a protein comprising or having at least 50%
XX identity to any of the 2469 amino acid sequences, identified in the
XX specification (available on a computer readable format), or its fragment,
XX expressed from 2469 of 2489 identified DNA coding regions from the
XX Streptococcus pneumoniae type 4 strain genomic sequence appearing as
XX ABS56454. Also included are an antibody which binds one of the proteins,
XX treating a patient by administering the protein, DNA or antibody (in a
XX composition), a kit comprising first and second primers, which are the
XX nucleic acid cited above or fragments between nucleotides 8-100 of a
XX sequence not defined in the specification, for amplifying a target
XX sequence contained within a Streptococcus nucleic acid sequence, where
XX the first primer is substantially complementary to the target sequence
XX and the second primer is substantially complementary to the complement of
XX the target sequence, and where the parts of the primers having
XX substantial complementarity define the termini of the target sequence to
XX be amplified, assay comprising contacting a test compound with the
XX protein, and determining whether the test compound binds to the protein
XX and a Streptococcus pneumoniae bacterium, where one or more genes
XX encoding the proteins has been rendered inactive. The proteins, nucleic
XX acid molecules, antibody and compositions are useful as medicaments for
XX treating or preventing a disease or infection due to streptococcus
XX bacteria, particularly S. pneumoniae, such as pneumonia, sepsis, otitis
XX media or ear infection. They are also useful in developing vaccines,
XX diagnostics and antibiotics. The methods are useful for identifying
XX immunodominant proteins. The present sequence is the Streptococcus
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QY 681 CGAGGAGCGACCGACAAACAGCCCTCTGCTTGGCTTGGATCAATGCTGTGAGCGCTTC 740
Db 418 CGGGGTGTGTCTGATACAAAGGCCAACTTGAATTGCCCGCTCAATGCCATCCAGCTCTTTC 477
QY 741 AGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATATTCAGGGGATGGAAGAG 800
Db 478 TTAGAAGACCATGATGGCTTGGCGATCAATATTAAGTTCTCTATTGAAGGGNAGAGAG 537
QY 801 GCTGGCTCTGTTCCCTCGGAGGAACCTTGTGAAAAAAGAAAGACCGATT 850
Db 538 ATCGGTAGTGTCCACATGATGATTATTAGCCCAATACCAGGACAAAGTT 587

RESULT 116
ADBI2064_07
Continuation (8 of 18) of ADBI2064 from base 700001 (Alliococcus otitis entire genome s
WP Sequence split into 18 fragments LOCUS ADBI2064 Accession Adbi2064
WP Fragment Name Begin End
WP ADBI2064_00 1 110000
WP ADBI2064_01 100001 210000
WP ADBI2064_02 200001 310000
WP ADBI2064_03 300001 410000
WP ADBI2064_04 400001 510000
WP ADBI2064_05 500001 610000
WP ADBI2064_06 600001 710000
WP ADBI2064_07 700001 810000
WP ADBI2064_08 800001 910000
WP ADBI2064_09 900001 1010000
WP ADBI2064_10 1000001 1110000
WP ADBI2064_11 1100001 1210000
WP ADBI2064_12 1200001 1310000
WP ADBI2064_13 1300001 1410000
WP ADBI2064_14 1400001 1510000
WP ADBI2064_15 1500001 1610000
WP ADBI2064_16 1600001 1710000
WP ADBI2064_17 1700001 1754382

Query Match 3.8%; Score 85.2; DB 9; Length 110000;
Best Local Similarity 55.9%; Pred. No. 6e-08;
Matches 162; Conservative 0; Mismatches 128; Indels 0; Gaps 0;

QY 561 GATCCCAAGGAGCGACCGGTCTCTACGGCCACTTGGACCTGACGCTGCTGACCGG 620
Db 61000 GAAGCAACAGCGGACCTTACTATTTACACCATATGATGTCAGCGGAGAACCG 61059
QY 621 GCGGATGGGTGCTACGGACCCCTATGTGCTGACGAGGTAGACGGGAACTTTATGGA 680
Db 61060 GTTGAGGAGTGGCGAAGTACAGCCCTTGAACCAAGTTGAAAAAGACGGGGCCATCTATTGC 61119
QY 681 CGAGGAGCGACCGACAAACAGGCCCTGCTTGGCTTGGATCAATGCTGTGAGCGCTTC 740
Db 61120 CGGGGTGTGTCTGATACAAAGGCCAACTTGAATGCGCGGCTCAATGCTCAGCTCTTC 61179
QY 741 AGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATATTCAGGGGATGGAAGAG 800
Db 61180 TTAGAAGACCATGATGGCTTGGCGATCAATATTAAGTTCTCTATTGAAGGGNAGAGAG 61239
QY 801 GCTGGCTCTGTTCCCTCGGAGGAACCTTGTGAAAAAAGAAAGACCGATT 850
Db 61240 ATCGGTAGTGTCCACATGATGATTATTAGCCCAATACCAGGACAAAGTT 61289

RESULT 117
AAx91990_11/c
Continuation (12 of 13) of AAx91990 from base 1100001 (Nucleotide sequence of the comple
WP Sequence split into 13 fragments LOCUS AAx91990 Accession Aax91990
WP Fragment Name Begin End
WP AAx91990_00 1 110000
WP AAx91990_01 100001 210000
WP AAx91990_02 200001 310000
WP AAx91990_03 300001 410000
WP AAx91990_04 400001 510000
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WP AAx91990_05 500001 610000
WP AAx91990_06 600001 710000
WP AAx91990_07 700001 810000
WP AAx91990_08 800001 910000
WP AAx91990_09 900001 1010000
WP AAx91990_10 1000001 1110000
WP AAx91990_11 1100001 1210000
WP AAx91990_12 1200001 1230025

Query Match 3.6%; Score 80; DB 2; Length 110000;
Best Local Similarity 48.5%; Pred. No. 8.3e-07;
Matches 255; Conservative 0; Mismatches 265; Indels 6; Gaps 1;

QY 586 TCTACGGCCACTTGGACGTGACGCGGCGGATGGTGGCTCACGGACCCCT 645
Db 36774 TCTATAACACATATGATGTCAGCCAGCACAGCTATCTGATGTTGGAAGGAGATCCCT 36715
QY 646 ATGTGCTGACGGAGGTAGACGGGAACTTTATGGAGAGAGCGACCGACAAACAAAGGCC 705
Db 36714 TTATCCTTAGAAGAGAAATGCAATCTCTATGCCGAGAGCCTCTGATAACAAAGGAC 36655
QY 706 CTGCTTTGGCTTGGATCAATGCTGTGAGCGCTTTCAGAGCCCTTGGAGCAAGATCTTCCTG 765
Db 36654 AATGTTTTTACACCTTAAAGGCATTAACGACACTATTACGAATCTCAAGGAAACTTCCCTC 36595
QY 766 TGAATATCAAAATTCATATTGAGGGGATGGAAGAGGCTGGCTCTGTTGCCCTGGAGAAC 825
Db 36594 TAAATATATTATTGGTTAAATTGAGGGTGAAGAAGAGTGGAGTCTCGCATATTATTACTT 36535
QY 826 TTGTGAAAAAAGAAAGGACCGATTCTCTCTGTTGTGGACTACATTTGTAATTTACAGATA 885
Db 36534 GGTAGAAAGAAAGAAAGAGCTTT-----ACGGCGGACTATCTTCTGATCGTAGATG 36481
QY 886 ACTGTGATCAGCCAAAGAGAACCCAGCAATCACTATTGGAACCCCGGGGGAACAGTACT 945
Db 36480 GGGGTTTCTCTTGAAAAACACCCCTACGTAAAGCATTTGAGAGCTCGGGGTATTGTTTCCA 36421
QY 946 TCATGTTGGAGGTGAAATGCAGAGACCGAGATTTTCACTCAGAACCTTTTGGTGGCATCC 1005
Db 36420 TGAATAATCTCCCTTGAGAGGGGAACAGGACATGCACCTCAGAGTTTTAGGAGGAATTG 36361
QY 1006 TTCATGAACCAATGGCTGATCTGTTGCTCTTTCGGTAGCCTGTGAGTCTGTTGGTC 1065
Db 36360 CCTACAATACGAATCGTCTTTATCAGAAATTTCTGAGCTCTCTGCATCACCCTGACAAT 36301
QY 1066 ATATCCTGTCCTTGAATCTATGATGAAGTGGTTCTCTTACAGA 1111
Db 36300 CTATAGCTATTGAAGGATTTTATGATGATCTTGCTCTCCCTCCGGA 36255

RESULT 118
AAS59535/c
ID AAS59535 standard; DNA; 26309 BP.
XX
XX AAS59535;
AC AC
XX
DT 13-FEB-2002 (first entry)
XX
DE Propionibacterium acnes immunogenic protein encoding DNA #30.
XX
KW SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis;
KW uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;
KW inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;
KW dermatological; osteopathic; neuroprotectant; ds.
XX
OS Propionibacterium acnes.
XX
PN WO200181581-A2.
XX
PD 01-NOV-2001.
XX
PF 20-APR-2001; 2001WO-US012865.
XX
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PR 21-APR-2000; 2000US-0199047P.  
PR 02-JUN-2000; 2000US-0208841P.  
PR 07-JUL-2000; 2000US-0216747P.  
XX  
PA (CORI-) CORIXA CORP.  
XX  
XX Skeiky YAW, Persing DH, Mitcham JL, Wang SS, Bhatia A;  
PI L'maisonneuve J, Zhang Y, Jen S, Carter D;  
XX  
XX WPI; 2001-616774/71.  
XX  
XX Propionibacterium acnes polypeptides and nucleic acids useful for  
PT vaccinating against and diagnosing infections, especially useful for  
PT treating acne vulgaris.  
XX  
PS Claim 1; SEQ ID NO 30; 1069pp; English.  
XX  
XX Sequences AAS59506-AAS59804 represent DNA molecules encoding  
CC Propionibacterium acnes immunogenic polypeptides. The proteins and their  
CC associated DNA sequences are used in the treatment, prevention and  
CC diagnosis of medical conditions caused by P. acnes. The disorders include  
CC SAPHO syndrome (synovitis, acne, pustulosis, hypertyosis and  
CC osteomyelitis), uveitis and endophthalmitis. P. acnes is also involved in  
CC infections of bone, joints and the central nervous system, however it is  
CC particularly involved in the inflammatory lesions associated with acne  
CC vulgaris. A method for detecting the presence or absence of P. acnes in a  
CC patient comprises contacting a sample with a binding agent that binds to  
CC the proteins of the invention and determining the amount of bound protein  
CC in the sample. The polypeptides may be used as antigens in the production  
CC of antibodies specific for P. acnes proteins. These antibodies can be  
CC used to regulate expression and activity of P. acnes polypeptides and  
CC therefore treat P. acnes infections. The antibodies may also be used as  
CC diagnostic agents for determining P. acnes presence, for example, by  
CC enzyme linked immunosorbent assay (ELISA). This sequence encodes the  
CC polypeptides shown in AAU46704-AAU46985 and AAU67509. Note: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format directly from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 26309 BP; 5546 A; 8173 C; 7885 G; 4699 T; 0 U; 6 Other;

Query Match 3.6%; Score 79.8; DB 4; Length 26309;  
Best Local Similarity 49.0%; Pred. No. 5.9e-07;  
Matches 281; Conservative 0; Mismatches 277; Indels 15; Gaps 2;  
QY 531 CCTCCGCTATCTCGGCGAAGTGGGAGCGATCCACGAAAGCAGCGTGTCTTAC 590  
DB 14609 CTTCGCCGTGTCATCGCCCACTGGCGGCGCTGAGGGTATGCCCACTGCTCTGTAC 14550  
QY 591 GGCCACTTGGACGTGACGCTGTGACCGGGGCGATGGGTGCTCAGCGACCCCTATGTG 650  
DB 14549 TCCACCGTGAAGTCCCAACCCACCGCAACCTTGATGAGTGCGATCTGAACCTTCGTC 14490  
QY 651 CTGACGAGGTAGACGGGAATCTTATGACGAGGAGCGACCGACAAAGGCCCTGTGTC 710  
DB 14489 GCCACCGCCAAAGGTGAGCGTCTCTATGTCGTGGCACCGCGACGAAAGGTGGCGTC 14430  
QY 711 TTGCTTGGATCAATGCTGTGAGCGCTTCAGACCCCTGGACGAGATCTTCTGTGAAT 770  
DB 14429 GCCGCC-----CATCTGCCCGCAATCTGTCCTTCGACGCGCAACCCCGAGTCGGC 14379  
QY 771 ATCAAAATTCATTTGAGGGGATGGAAGAGAGCTGGCTCTGTTCCTCGAGGAACCTTGTG 830  
DB 14378 GTCAACCTCTTCGTGAGGGGAGAGAGATCGCTCGGCTTCTATGAGGTGATCATC 14319  
QY 831 GAAAGAAAGGACCGAATCTTCTGTGTGAGCTACATTTGTAATTCAGATAAAGCTG 890  
DB 14318 GCCGAGCACAGGACGAGCTGGCGCGACGCTCATCGTTGTGCGCGATTCGGTCAACTGG 14259  
QY 891 TGGATCAGCCAAAGGACGAGCAATCACTTATGACCCGGGGACAGCTACTTTCATG 950  
DB 14258 GAG-----CAGGCGCTCCCTTCGTGACGACCAACCCCTGCGCGCGCTCGTGCATC 14205

QY 951 GTGAGGTGAATGCAGAGACGAGGATTTTCACTCAGGAACCTTTGGTGGCATCTTCTCAT 1010  
DB 14204 GTCGAGGTCTCCACCCCTCGACCAAGCTTTCATTCGGCCAGTTTGGCGGATCGTGCC 14145  
QY 1011 GAACCAATGGCTGATCTGGTGTCTTCTTCGGTAGCCCTGAGACTCTCTGGGTGATATC 1070  
DB 14144 GATGCTTTCAGCACCCCTGTGTCGACTTATCCCACTTATCCAGCGGACCGGTGAGTGC 14085  
QY 1071 CTGCTCCCTGGAATCTATGATGAAGTGTTCCT 1103  
DB 14084 ACCGTGACGGGTTCAGGGATTCGCGGGCCCT 14052  
RESULT 119  
ACF64464/c  
ID ACF64464 standard; DNA; 26309 BP.  
XX AC ACF64464;  
XX DT 17-OCT-2003 (first entry)  
XX DE Propionibacterium acnes DNA contig sequence #30.  
XX KW Acne vulgaris; antiseborrheic; dermatological; antibacterial;  
XX KW immunostimulant; immune response; vaccine; ds.  
XX OS Propionibacterium acnes.  
XX FN WO2003033515-A1.  
XX PD 24-APR-2003.  
XX PF 11-OCT-2002; 2002WO-US032727.  
XX PR 15-OCT-2001; 2001US-00978825.  
XX PA (CORI-) CORIXA CORP.  
XX PI Mitcham JL, Skeiky YAW, Persing DH, Bhatia A, Maisonneuve JL;  
PI Zhang Y, Wang S, Jen S, Lodes MJ, Benson DR, Jones R, Carter D;  
PI Barth B, Vallie-Douglas J;  
XX WPI; 2003-381789/36.  
XX PT New Propionibacterium acnes polypeptides and polynucleotides encoding the  
PT polypeptide, useful for diagnosing, preventing or treating acne vulgaris,  
PT or for stimulating an immune response specific for a P. acnes protein.  
XX Claim 1; SEQ ID NO 30; 1481pp; English.  
XX The invention relates to an isolated polynucleotide (ACF64435-ACF64733)  
CC encoding a Propionibacterium acnes protein. The invention also relates to  
CC polypeptides encoded by the polynucleotides (ABM35624-ABM64536) and to  
CC immunogenic fragments of P. acnes polypeptides. The invention  
CC additionally encompasses expression vectors and host cells comprising a  
CC polynucleotide of the invention; antibodies against polypeptides of the  
CC invention; fusion proteins comprising a polypeptide of the invention; a  
CC method for stimulating an immune response specific for a P. acnes  
CC polypeptide and an isolated T cell population comprising T cells prepared  
CC via this method; a vaccine composition (comprising P. acnes polypeptides,  
CC polynucleotides, antibodies, fusion proteins, T cell populations, or  
CC antigen-presenting cells that express the polypeptide); a method and kit  
CC for detecting or determining the presence or absence of P. acnes in a  
CC patient; and a method for inhibiting the development of P. acnes in a  
CC patient. The P. acnes polypeptides, polynucleotides, antibodies, fusion  
CC proteins, T cell populations or antigen-presenting cells that express the  
CC polypeptides are useful for diagnosing, preventing or treating acne  
CC vulgaris, or for stimulating an immune response specific for a P. acnes  
CC protein. The polynucleotides can also be used as probes or primers for  
CC nucleic acid hybridisation. The vaccine composition is useful for the  
CC stimulation of an immune response against P. acnes, or for treating acne,  
CC and the kit is useful for performing a diagnostic assay. The present  
CC sequence represents a P. acnes DNA contig which is specifically claimed





Query Match 3.5%; Score 79.4; DB 13; Length 912;  
Best Local Similarity 49.2%; Pred.No. 2.5e-07;  
Matches 268; Conservative 0; Mismatches 271; Indels 6; Gaps 2;  
QY 576 ACCGTGTGCTTCACGGCCACTTTGGACGTGCAGCTCTGCACGGGGCGCATGGGTGGCTC 635  
Db 163 ACCTTGATTTTCTATACCACTATGACATGTGCCAGCGATGGGATCAGGTCTGGACA 222

PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220363P.  
PR 26-JUL-2000; 2000US-0220364P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.  
PR 14-AUG-2000; 2000US-0225270P.  
PR 14-AUG-2000; 2000US-0225447P.  
PR 14-AUG-2000; 2000US-0225757P.  
PR 14-AUG-2000; 2000US-0225758P.  
PR 14-AUG-2000; 2000US-0225759P.  
PR 18-AUG-2000; 2000US-0226279P.  
PR 22-AUG-2000; 2000US-0226681P.  
PR 22-AUG-2000; 2000US-0226686P.  
PR 23-AUG-2000; 2000US-0227182P.  
PR 23-AUG-2000; 2000US-0227009P.  
PR 30-AUG-2000; 2000US-0228924P.  
PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
PR 01-SEP-2000; 2000US-0229344P.  
PR 01-SEP-2000; 2000US-0229345P.  
PR 05-SEP-2000; 2000US-0229509P.  
PR 05-SEP-2000; 2000US-0229513P.  
PR 06-SEP-2000; 2000US-0230437P.  
PR 06-SEP-2000; 2000US-0230438P.  
PR 08-SEP-2000; 2000US-0231242P.  
PR 08-SEP-2000; 2000US-0231243P.  
PR 08-SEP-2000; 2000US-0231244P.  
PR 08-SEP-2000; 2000US-0231413P.  
PR 08-SEP-2000; 2000US-0231414P.  
PR 08-SEP-2000; 2000US-0232080P.  
PR 12-SEP-2000; 2000US-0232081P.  
PR 12-SEP-2000; 2000US-0231968P.  
PR 14-SEP-2000; 2000US-0232397P.  
PR 14-SEP-2000; 2000US-0232398P.  
PR 14-SEP-2000; 2000US-0232399P.  
PR 14-SEP-2000; 2000US-0232400P.  
PR 14-SEP-2000; 2000US-0232401P.  
PR 14-SEP-2000; 2000US-0233063P.  
PR 14-SEP-2000; 2000US-0233064P.  
PR 14-SEP-2000; 2000US-0233065P.  
PR 21-SEP-2000; 2000US-0234223P.  
PR 21-SEP-2000; 2000US-0234274P.  
PR 25-SEP-2000; 2000US-0234997P.  
PR 25-SEP-2000; 2000US-0234998P.  
PR 26-SEP-2000; 2000US-0235484P.  
PR 27-SEP-2000; 2000US-0235834P.  
PR 27-SEP-2000; 2000US-0235836P.  
PR 29-SEP-2000; 2000US-0236327P.  
PR 29-SEP-2000; 2000US-0236367P.  
PR 29-SEP-2000; 2000US-0236368P.  
PR 29-SEP-2000; 2000US-0236369P.  
PR 29-SEP-2000; 2000US-0236370P.  
PR 02-OCT-2000; 2000US-0236802P.  
PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
PR 13-OCT-2000; 2000US-0237040P.  
PR 13-OCT-2000; 2000US-0239935P.  
PR 13-OCT-2000; 2000US-0239937P.  
PR 20-OCT-2000; 2000US-0240960P.  
PR 20-OCT-2000; 2000US-0241221P.  
PR 20-OCT-2000; 2000US-0241785P.  
PR 20-OCT-2000; 2000US-0241786P.  
PR 20-OCT-2000; 2000US-0241787P.  
PR 20-OCT-2000; 2000US-0241808P.  
PR 20-OCT-2000; 2000US-0241809P.  
PR 20-OCT-2000; 2000US-0241826P.  
PR 01-NOV-2000; 2000US-0244617P.  
PR 08-NOV-2000; 2000US-0246474P.  
PR 08-NOV-2000; 2000US-0246475P.  
PR 08-NOV-2000; 2000US-0246476P.  
PR 08-NOV-2000; 2000US-0246477P.  
PR 08-NOV-2000; 2000US-0246478P.  
PR 08-NOV-2000; 2000US-0246523P.  
PR 08-NOV-2000; 2000US-0246524P.  
PR 08-NOV-2000; 2000US-0246525P.  
PR 08-NOV-2000; 2000US-0246526P.  
PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249279P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 11-DEC-2000; 2000US-0251990P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX  
XX  
XX  
PI Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-483426/52.  
XX  
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
XX useful for preventing, diagnosing and/or treating cancers and metastasis.  
PS Disclosure; SEQ ID NO 39935; 3071pp + Sequence Listing; English.  
XX  
XX AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)  
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic  
CC activity, and can be used in gene therapy and vaccine production. (I)  
CC proteins and polynucleotides may be used in the prevention, diagnosis and  
CC treatment of diseases associated with inappropriate (I) expression. For  
CC example, they may be used to treat disorders associated with decreased  
CC expression by rectifying mutations or deletions in a patient's genome  
CC that affect the activity of (I) by expressing inactive proteins or to  
CC supplement the patients own production of (I). Additionally, (I)  
CC polynucleotides may be used to produce the secreted (I), by inserting the  
CC nucleic acids into a host cell and culturing the cell to express the  
CC protein. (I) proteins and polynucleotides may be used to prevent,  
CC diagnose and treat immune/haematopoietic-related diseases, especially



PR 08-NOV-2000; 2000US-0246527P.  
PR 08-NOV-2000; 2000US-0246528P.  
PR 08-NOV-2000; 2000US-0246532P.  
PR 08-NOV-2000; 2000US-0246609P.  
PR 08-NOV-2000; 2000US-0246610P.  
PR 08-NOV-2000; 2000US-0246611P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 08-NOV-2000; 2000US-0246613P.  
PR 17-NOV-2000; 2000US-0249207P.  
PR 17-NOV-2000; 2000US-0249208P.  
PR 17-NOV-2000; 2000US-0249209P.  
PR 17-NOV-2000; 2000US-0249210P.  
PR 17-NOV-2000; 2000US-0249211P.  
PR 17-NOV-2000; 2000US-0249212P.  
PR 17-NOV-2000; 2000US-0249213P.  
PR 17-NOV-2000; 2000US-0249214P.  
PR 17-NOV-2000; 2000US-0249215P.  
PR 17-NOV-2000; 2000US-0249216P.  
PR 17-NOV-2000; 2000US-0249217P.  
PR 17-NOV-2000; 2000US-0249218P.  
PR 17-NOV-2000; 2000US-0249244P.  
PR 17-NOV-2000; 2000US-0249245P.  
PR 17-NOV-2000; 2000US-0249264P.  
PR 17-NOV-2000; 2000US-0249265P.  
PR 17-NOV-2000; 2000US-0249297P.  
PR 17-NOV-2000; 2000US-0249299P.  
PR 17-NOV-2000; 2000US-0249300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0256719P.  
PR 08-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251869P.  
PR 08-DEC-2000; 2000US-0251989P.  
PR 11-DEC-2000; 2000US-0251990P.  
PR 05-JAN-2001; 2001US-0259678P.  
(HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-483426/52.  
XX  
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,  
XX useful for preventing, diagnosing and/or treating cancers and metastasis.  
XX  
XX Disclosure; SEQ ID NO 32661; 3071pp + Sequence Listing; English.  
XX  
XX AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)  
XX amino acid sequences given in AAK82170 to AAK51921. (I) have cytostatic  
XX activity, and can be used in gene therapy and vaccine production. (I)  
XX proteins and polynucleotides may be used in the prevention, diagnosis and  
XX treatment of diseases associated with inappropriate (I) expression. For  
XX example, they may be used to treat disorders associated with decreased  
XX expression by rectifying mutations or deletions in a patient's genome  
XX that affect the activity of (I) by expressing inactive proteins or to  
XX supplement the patients own production of (I). Additionally, (I)  
XX polynucleotides may be used to produce the secreted (I), by inserting the  
XX nucleic acids into a host cell and culturing the cell to express the  
XX protein. (I) proteins and polynucleotides may be used to prevent,  
XX diagnose and treat immune/hematopoietic-related diseases, especially  
XX cancers and cancer metastases of hematopoietic-derived cells. AAK64703  
XX to AAK87694 represent human immune/hematopoietic antigen genomic  
XX sequences from the present invention. AAK54942 to AAK54950 and AAK82169  
XX represent sequences used in the exemplification of the present invention  
XX  
XX Sequence 24788 BP; 5726 A; 5995 C; 6603 G; 6464 T; 0 U; 0 Other;  
XX  
XX Query Match 3.5%; Score 79.4; DB 4; Length 24788;  
XX Best Local Similarity 60.4%; Pred. No. 7.1e-07;

Matches 131; Conservative 0; Mismatches 86; Indels 0; Gaps 0;  
QY 753 CAAGATCTTCCTGTAATCAAAATTCATTTGAGGGATGGAAGAGCTGGCTCTGTT 812  
DB 14469 CAGGAGATTCCTGTCAACGTCGATTCGCTCGAAGGCATGGAGAGTCAAGCTCTGAG 14528  
QY 813 GCCCTGGAGGAACCTTGTGAAAAAGAAAGGACCGAATTCCTCTGTTGTGACTACATTT 872  
DB 14529 GGCCTAGACGAGCTGATTTTGGCCGGAAGACACATCTTTAAGGATGTGACTATGTC 14588  
QY 873 GTAATTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAGCAATCACTTATGGAACCCGG 932  
DB 14589 TGCATTTCTGCATATTACTGTGGTGGAAAGAACCCCTGCATCACTACGCTCAGG 14648  
QY 933 GGGACAGCTACTTTCATGTGGAGGTGAAATGCAGAG 969  
DB 14649 GGCATTTGCTACTTTTTCATGAGGTACAGTCCCAAG 14685  
RESULT 124  
AAS09225/c  
ID AAS09225 standard; DNA; 24788 BP.  
XX AAS09225;  
XX  
XX AAS09225;  
DT 07-NOV-2001 (first entry)  
XX  
DE Genomic sequence #1 encoding for novel human ADAM or serine protease.  
XX  
XX Human; ADAM; a disintegrin and metalloprotease domain; adamalysin;  
KW serine protease; cancer; immune disease; blood-related disorder; HMWFM73;  
KW hyperproliferative disorder; renal disorder; cardiovascular disorder;  
KW respiratory disorder; inflammatory disorder; neurological disorder;  
KW endocrine disorder; reproductive system disorder; infectious disease;  
KW gastrointestinal disorder; Gene therapy; cytostatic; anti inflammatory;  
KW fertility; thrombolytic; anti coagulant; neuroprotective; ds.  
XX  
XX Homo sapiens.  
XX  
XX  
FH Key Location/Qualifiers  
FT exon 1..92  
FT /\*tag= a  
FT /number= 1  
FT intron 93..1168  
FT /\*tag= b  
FT /number= 1  
FT exon 1169..1479  
FT /\*tag= c  
FT /number= 2  
FT intron 1480..2825  
FT /\*tag= d  
FT /number= 2  
FT exon 2826..3317  
FT /\*tag= e  
FT /number= 3  
FT intron 3318..3528  
FT /\*tag= f  
FT /number= 3  
FT exon 3529..3692  
FT /\*tag= g  
FT /number= 4  
FT intron 3693..4320  
FT /\*tag= h  
FT /number= 4  
FT exon 4321..4738  
FT /\*tag= i  
FT /number= 5  
FT intron 4739..4751  
FT /\*tag= j  
FT /number= 5  
FT exon 4752..5131  
FT /\*tag= k  
FT /number= 6  
FT

FT intron 5132..6435  
FT /\*tag= 1  
FT /number= 6  
FT 6436..6742  
FT /\*tag= m  
FT /number= 7  
FT 6743..7118  
FT /\*tag= n  
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FT 7119..7633  
FT /\*tag= o  
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FT 7634..7835  
FT /\*tag= p  
FT /number= 8  
FT 7836..8335  
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FT 8336..8424  
FT /\*tag= r  
FT /number= 9  
FT 8425..8907  
FT /\*tag= s  
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FT 8908..9505  
FT /\*tag= t  
FT /number= 10  
FT 9506..9676  
FT /\*tag= u  
FT /number= 11  
FT 9677..12497  
FT /\*tag= v  
FT /number= 11  
FT 12498..12588  
FT /\*tag= w  
FT /number= 12  
FT 12589..12794  
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FT /number= 12  
FT 12795..12994  
FT /\*tag= y  
FT /number= 13  
FT 12995..13642  
FT /\*tag= z  
FT /number= 13  
FT 13643..15389  
FT /\*tag= aa  
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FT 15390..16092  
FT /\*tag= ab  
FT /number= 14  
FT 16093..16187  
FT /\*tag= ac  
FT /number= 15  
FT 16188..17213  
FT /\*tag= ad  
FT /number= 15  
FT 17214..17375  
FT /\*tag= ae  
FT /number= 16  
FT 17376..18196  
FT /\*tag= af  
FT /number= 16  
FT 18197..18405  
FT /\*tag= ag  
FT /number= 17  
FT 18406..19847  
FT /\*tag= ah  
FT /number= 17  
FT 19848..20486  
FT /\*tag= ai  
FT /number= 18  
FT 20487..20521

FT /\*tag= aj  
FT /number= 18  
FT 20522..20873  
FT /\*tag= ak  
FT /number= 19  
FT 20874..21275  
FT /\*tag= al  
FT /number= 19  
FT 21276..21619  
FT /\*tag= am  
FT /number= 20  
FT 21620..21713  
FT /\*tag= an  
FT /number= 20  
FT 21714..21943  
FT /\*tag= ao  
FT /number= 21  
FT 21944..22152  
FT /\*tag= ap  
FT /number= 21  
FT 22153..22514  
FT /\*tag= aq  
FT /number= 22  
FT 22515..22601  
FT /\*tag= ar  
FT /number= 22  
FT 22602..22754  
FT /\*tag= as  
FT /number= 23  
FT 22755..23068  
FT /\*tag= at  
FT /number= 23  
FT 23069..23481  
FT /\*tag= au  
FT /number= 24  
FT 23482..23651  
FT /\*tag= av  
FT /number= 24  
FT 23652..24788  
FT /\*tag= aw  
FT /number= 25  
XX  
PN WO200155309-A2.  
XX  
XX 02-AUG-2001.  
XX  
PF 17-JAN-2001; 2001WO-US001311.  
XX  
PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198123P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215135P.  
PR 07-JUL-2000; 2000US-0216647P.  
PR 07-JUL-2000; 2000US-0216880P.  
PR 11-JUL-2000; 2000US-0217487P.  
PR 14-JUL-2000; 2000US-0217496P.  
PR 14-JUL-2000; 2000US-0218290P.  
PR 26-JUL-2000; 2000US-0220963P.  
PR 26-JUL-2000; 2000US-0220964P.  
PR 14-AUG-2000; 2000US-0224518P.  
PR 14-AUG-2000; 2000US-0224519P.  
PR 14-AUG-2000; 2000US-0225213P.  
PR 14-AUG-2000; 2000US-0225214P.  
PR 14-AUG-2000; 2000US-0225266P.  
PR 14-AUG-2000; 2000US-0225267P.  
PR 14-AUG-2000; 2000US-0225268P.

```
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.

Query Match      3.5%; Score 79.4; DB 4; Length 24788;
Best Local Similarity 60.4%; Pred. No. 7.1e-07;
Matches 131; Conservative 0; Mismatches 86; Indels 0; Gaps 0;

QY 753 CAAGATCTTCCTGTAATATCAAAATTCATCTAGGGGATGGAAGGCTGGCTCTGTT 812
Db 10320 CAGGAGATTCCTGCAACGCTCCGATCTGCTCGAAGGCATGGAGGATCAGGCTCTGAG 10261

QY 813 GCCCTGGAGGAACCTGTGGAAGAAAGAACCGGATCTCTCTGTGTGGACTACATT 872
Db 10260 GGCCTAGACGAGCTGATTTTGGCCGGAAGACACATCTTTAAGATGAGACTATGTC 10201

QY 873 GTAATTCAGATACCTGTGGATCAGCAAGCAAGCAAGCAATCACTTATGGAACCCGG 932
Db 10200 TGCATTTCTGACAATTAATCTGCTGGAAAGAAAGCCCTGCATCACCTACGGCCTCAGG 10141

QY 933 GGGAAACAGCTACTTCATGGTGGAGGTGAATGCGAGAG 969
Db 10140 GGCATTTGCTACTTTTCAATCAGGATCAGTGCACAG 10104

RESULT 125
AAC01627
ID AAC01627 standard; cDNA; 409 BP.
XX
AC AAC01627;
XX
XX 06-OCT-2000 (first entry)
XX
XX Human secreted protein 5' EST, SEQ ID NO: 1625.
XX
XX Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
XX gene therapy; chromosome mapping; ss.
XX
XX Homo sapiens.
XX
XX EP1033401-A2.
XX
XX 06-SEP-2000.
XX
XX 21-FEB-2000; 2000EP-00200610.
XX
XX 26-FEB-1999; 99US-0122487P.
XX
XX (GEST ) GENSET.
XX
XX Dumas Milne Edwards J, Duclert A, Giordano J;
XX
XX WPI; 2000-500381/45.
XX
XX P-PSDB; AAC01621.
XX
XX New nucleic acid that is a 5' expressed sequence tag (5' EST) for
XX obtaining cDNAs and genomic DNAs that correspond to 5' ESTs and for
XX diagnostic, forensic, gene therapy and chromosome mapping procedures.
XX
XX Claim 1; SEQ ID NO 1625; 71pp + Sequence Listing; English.
XX
XX The present sequence is one of a large number of 5' ESTs derived from
XX mRNAs encoding secreted proteins. An ORF has been identified within the
XX sequence. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs
XX derived from 30 different tissues. EST sequences usually correspond
XX mainly to the 3' untranslated region (UTR) of the mRNA because they are
XX often obtained from oligo-dT primed cDNA libraries. Such ESTs are not
XX well suited for isolating cDNA sequences derived from the 5' ends of
XX mRNAs and even in those cases where longer cDNA sequences have been
XX obtained, the full 5' UTR is rarely included. 5' ESTs are derived from
XX mRNAs with intact 5' ends and can therefore be used to obtain full length
XX cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic,
XX gene therapy and chromosome mapping procedures. They are used to obtain
XX upstream regulatory sequences and to design expression and secretion
```

CC vectors

XX Sequence 409 BP; 94 A; 97 C; 127 G; 87 T; 0 U; 4 Other;

XX Query Match 3.4%; Score 76.8; DB 3; Length 409;  
XX Best Local Similarity 56.5%; Pred. No. 7.3e-07;  
XX Matches 160; Conservative 2; Mismatches 115; Indels 6; Gaps 1;

QY 313 TCTTCAGTACATGTGACCTCCATCAGGATGAATTTTGCAGACGCTGAAGGAGTGGGTGG 372

Db 133 TGTTTAAGTACATAGATGAAATCAGGATCGCTACATTAAGAACTCGCAAAATGGGTGG 192

QY 373 CCATCAGAGCGACTCTGTCCAGCCTGTGCTCGCTTCAGACAGAGCTCTTCAGAAATGA 432

Db 193 CTATCCAGAGTGTGTCTGCTGCGTGGCCGGAG-----AAGAGAGCGGAAATCAGGAGGATGA 246

QY 433 TGGCCCTGGCTGGGGACACGCTGCAGCGCTGGGGCCCGTGTGGCTCGGTGGACATGG 492

Db 247 TGGAACTTCTGCTGCAGATGTTAAGCAGTTGGGGGGCTCTGTGGNACTGGTGGATATCG 306

QY 493 GTCTCTCAGCAGCTGCGCGATGTCAGAGTCTTCCAAATACCTCCCGTCATCTCTGGCGGAAC 552

Db 307 GAAACAAAGAGTCCCTGATGGCTCGNAGATCCCGTCCCTCTATTTCTGMMCGGCAGGC 366

QY 553 TGGGGAGCGATCCACGAAAGCAGCGTGTCTTCTACGGCCA 595

Db 367 TGGGWTCCACCACAGAAAGACCGTGTGCAITTTACGGGCA 409

RESULT 126

AAC01626

ID AAC01626 standard; cDNA; 464 BP.

XX AAC01626;

XX 06-OCT-2000 (first entry)

XX Human secreted protein 5' EST, SEQ ID NO: 1624.

XX Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;  
XX gene therapy; chromosome mapping; ss.  
XX  
XX Homo sapiens.  
XX  
XX EP1033401-A2.  
XX  
XX 06-SEP-2000.  
XX  
XX 21-FEB-2000; 2000EP-00200610.  
XX  
XX 26-FEB-1999; 99US-0122487P.  
XX  
XX (GEST ) GENSET.  
XX

Dumas Milne Edwards J, Duclert A, Giordano J;

WPI; 2000-500381/45.

P-PSDB; AAC01620.

XX New nucleic acid that is a 5' expressed sequence tag (5' EST) for  
XX obtaining cDNAs and genomic DNAs that correspond to 5' ESTs and for  
XX diagnostic, forensic, gene therapy and chromosome mapping procedures.

XX Claim 1; SEQ ID NO 1624; 71pp + Sequence Listing; English.

XX The present sequence is one of a large number of 5' ESTs derived from  
XX mRNAs encoding secreted proteins. An ORF has been identified within the  
XX sequence. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs  
XX derived from 30 different tissues. EST sequences usually correspond  
XX mainly to the 3' untranslated region (UTR) of the mRNA because they are  
XX often obtained from oligo-dT primed cDNA libraries. Such ESTs are not  
XX well suited for isolating cDNA sequences derived from the 5' ends of  
XX mRNAs and even in those cases where longer cDNA sequences have been



```
XX (NOVO ) NOVO NORDISK BIOTECH INC.
PA (NOVO ) NOVO NORDISK AS.
PI Berka RM, Rey MW, Shuster JR, Kauppinen S, Clausen IG, Olsen PB;
XX WPI; 2000-594572/56.
DR
XX
XX Monitoring differential expression of genes in filamentous fungal cells
PT uses fluorescence-labeled nucleic acids isolated from the cells and a
PT substrate of expressed sequence tags.
XX
XX Claim 88; Page 1917; 316pp; English.
PS
XX The present invention describes a method for monitoring differential
CC expression of genes in a first filamentous fungal (FF) cell relative to
CC expression of the same genes in one or more second filamentous fungal
CC cells. The method uses fluorescence-labeled nucleic acids isolated from
CC the FF cells and a substrate of expressed sequence tags (EST). The ESTs
CC are used in the methods for monitoring differential expression of genes
CC in a first filamentous fungal (FF) cell relative to expression of the
CC same genes in one or more second filamentous fungal cells. Monitoring the
CC global expression of genes from FF cells allows the production potential
CC of the microorganisms to be improved. New genes may be discovered,
CC possible functions of unknown open reading frames can be identified and
CC gene copy number variation and stability can be monitored. The expression
CC of genes can be used to study how FF cells adapt to changes in culture
CC conditions, environmental stress, spore morphogenesis, recombination,
CC metabolic or catabolic pathway engineering. Using ESTs provides several
CC advantages over genomic or random cDNA clones including elimination of
CC redundancy as one spot on an array equals one gene or open reading frame,
CC and organisation of the microarrays based on function of the gene
CC products to facilitate analysis of the results. AAF07478 to AAF11247
CC represents ESTs from Fusarium venenatum; AAF11248 to AAF11853 represents
CC ESTs from Aspergillus niger; AAF11854 to AAF14878 represents ESTs from
CC Aspergillus oryzae; and AAF14879 to AAF15337 represents ESTs from
CC Trichoderma reesei, which are all specifically claimed in the present
CC invention
XX
XX Sequence 650 BP; 171 A; 142 C; 179 G; 156 T; 0 U; 2 Other;
QY Query Match 3.4%; Score 75.4; DB 3; Length 650;
Best Local Similarity 53.0%; Pred. No. 1.7e-06;
Matches 206; Conservative 0; Mismatches 178; Indels 5; Gaps 2;
QY 522 CTTCCAAATACCTCCGTCATCTCGGCGAAGCTGGGAGCGATCCACGAAAGCACCCTG 591
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
264 CTTGACCTACCCCGAGTTGTCATCGTCTGGCAATGATAAAAACACGACGACCAT 323
QY 582 TGCTTCTACGGCCACTGGACGTCGACCTGTCACCGGGCGATGGTGGCTCACGGAC 641
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
324 CTGGTTTACGGCCATTATGATGTCACGACGATTTGAAGAACGCGATGGGCCACCGAG 393
QY 642 CCCTATGTGCTGACGGAGGTAGAC---GGGAAACTTTATGGACGAGGAGCGACCGACAAC 698
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
384 CTTTTCATTTGACGGTTGACACCAAGGAAGGATGACGGCGTGGAGTACAGACGAC 443
QY 699 AAGGCGCTGCTTGGCTTGGATCAATGCTGTGAGCGCCTTCAGACCCCTGGAGCAAGAT 758
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
444 AAGAGTCCCGCTCTTGGGATGGTTGAACGTGATCGAAGCCACAGGAAGCTGCTGTTGAG 503
QY 759 CTTCTGTGTAATCAAAATTCATTTGAGGGGATGGAGAGCTGCTCTGTTGCCCTG 818
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
504 CTGCCAGTCAACCTCTTTGCTGCTTGGGGCATGGAGGATGCTGCTGAAGGGGTG 563
QY 819 GAGGAACCTTGGAAAGAAAGGACCGATTTCTTCTGGTGGACATACATTGTAAT 878
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
564 --AGGAATTTATTCAGCTCAGAGCAAGAGCTTTTTCAGGATCGGATCGCTCTGCATA 621
QY 879 TCAGATAACCTGTGGATCAGCCAAAGAA 907
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
622 TCAGATAAATTTATTTGGCTTGGAAACAGAGAA 650
```

```
RESULT 129
ACN55464/C
ID ACN55464 standard; cDNA; 540 BP.
XX
XX ACN55464;
XX
XX 02-DEC-2004 (first entry)
XX
XX Cotton androecium tissue EST Clone ID: LIB3828-024-Q6-N6-A3, SEQ:10245.
DE
XX Cotton; plant; EST; expressed sequence tag; transgenic plant; androecium;
XX variety Nucotton33B; library LIB3828; molecular tag; molecular marker;
XX genetic mapping; molecular mapping; seed germination; plant growth;
XX plant quality; plant yield; plant breeding; tissue printing; ss.
XX
XX Gossypium hirsutum.
OS
XX US2004123340-A1.
PN
XX 24-JUN-2004.
PD
XX
XX 12-DEC-2001; 2001US-00021323.
PF
XX 14-DEC-2000; 2000US-0255619P.
PR
XX (DEIK/) DEIKMAN J.
PA (FENG/) FENG P C C.
PA (FINC/) FINCHER K L.
PA (ZIEG/) ZIEGLER T E.
XX
XX Deikman J, Feng PCC, Fincher KL, Ziegler TE;
PI
XX WPI; 2004-479808/45.
XX
XX New isolated nucleic acid molecule that encodes a plant protein or its
XX fragment, useful for isolating a variety of agronomically significant
XX genes associated with plant growth, quality or yield, and as molecular
XX tags to map genes.
XX
XX Claim 1; SEQ ID NO 10245; 34pp; English.
XX
XX The invention relates to 17880 cotton expressed sequence tags (ESTs;
XX ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated
XX from primed or non-primed seeds from variety DP50B, mature seeds from
XX variety Coker 312 Boswell 96 Field, and androecium tissue, gynoecium
XX tissue, developing fibres, carpel walls and septa from variety
XX Nucotton33B. The invention also relates to substantially purified
XX proteins or their fragments encoded by nucleic acid molecules of the
XX invention, and to transformed plants having a nucleic acid construct
XX comprising a nucleic acid of the invention. The cotton ESTs are useful as
XX molecular tags to isolate genetic regions, to isolate genes, to map
XX genes, to determine gene function and to determine whether genes are
XX members of a particular gene family. The nucleic acid molecules may be
XX used for isolating a variety of agronomically significant genes
XX associated with plant growth, quality, yield, and could also serve as
XX links in metabolic and catabolic pathways. The nucleic acid molecules are
XX also useful for identifying genes important in initiating and maintaining
XX seed germination or that may be used to mitigate stresses encountered
XX during seed germination. The ESTs additionally enable the acquisition of
XX promoters and cis-regulatory elements which will be useful to express
XX agronomically significant genes in these tissues and/or other tissues,
XX and also permits the acquisition of molecular markers useful in breeding
XX schemes, genetic and molecular mapping, and in cloning of agronomically
XX significant genes. The nucleic acid molecules are further useful for
XX detecting the expression level or pattern of a protein or mRNA and for
XX detecting the presence or quantity of a protein by tissue printing. The
XX present sequence represents a specifically claimed EST isolated from a
XX cotton variety Nucotton33B androecium tissue cDNA library (LIB3828). The
XX sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from the US
XX patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340
```



```
SQ Sequence 540 BP; 155 A; 58 C; 103 G; 224 T; 0 U; 0 Other;
Query Match 3.3%; Score 75; DB 13; Length 540;
Best Local Similarity 77.6%; Pred. No. 2e-06;
Matches 90; Conservative 0; Mismatches 26; Indels 0; Gaps 0;
Qy 2127 CTTTACCACCTTTCCTTTATCTATTATAAATAATGTTGGTCTCCACCACTGNCCTCC 2186
Db 200 CTTTTCGCCCTGTGTTTTTTTTTTTTTTTAAAAATTTTATTTTCCCTCCCTCCCA 141
Qy 2187 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242
Db 140 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 85

RESULT 130
ACH94002
ID ACH94002 standard; DNA; 202 BP.
XX
AC ACH94002;
XX
XX
DT 29-JUL-2004 (first entry)
XX
XX Human genome derived single exon probe #27197.
DE Human; probe; ss; gene expression; single exon probe; microarray;
KW alternative splicing event; genomic alteration.
XX
XX Homo sapiens.
XX
XX US2003194704-A1.
XX
XX 16-OCT-2003.
XX
XX 03-APR-2002; 2002US-00029386.
XX
XX 03-APR-2002; 2002US-00029386.
XX
XX (PENN/) PENN S G.
XX
XX (RANK/) RANK D R.
XX
XX (HANZEL/) HANZEL D K.
XX
XX Penn SG, Rank DR, Hanzel DK;
XX
XX WPI; 2004-119264/12.
XX
XX New human genome-derived single exon nucleic acid probes useful for human
PT gene expression analysis, for identifying or characterizing alternative
PT splicing events, for assessing genomic alterations or as tools for
PT surveying tissues.
XX
XX Claim 1; SEQ ID NO 27197; 80pp; English.
XX
XX The invention relates to a nucleic acid probe for measuring human gene
XX expression, comprising any of the 27,400 fully defined nucleotide
XX sequences in the specification, or their complements or fragments, and
XX encoding at least 8 amino acids of any of the 6888 amino acid sequences
XX fully defined in the specification. The probe is a single exon probe that
XX hybridises under high stringency conditions to a nucleic acid molecule
XX expressed in human cells or tissues. Also included are a spatially-
XX addressable set of single exon nucleic acid probes for measuring human
XX gene expression (comprising a plurality of single exon nucleic acid
XX probes cited above, where each of the plurality of probes is separately
XX and addressably isolatable or amplifiable from the plurality), a single
XX exon microarray for measuring human gene expression, a method of
XX measuring human gene expression, a vector comprising the single exon
XX probe cited above, an ORF-encoded peptide comprising at least 8
XX contiguous amino acids of any of the above-mentioned amino acid
XX sequences (optionally with conservative amino acid substitutions), an
XX isolated antibody that binds specifically to a peptide cited above,
XX methods of selling and/or licensing single exon probes or microarrays to
XX a customer desiring to measure gene expression, a method of providing
XX human gene expression data by subscription, and a computer-readable
```



```
QY 2178 CTGCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2237
DB 148 TTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 89
QY 2238 AAAAA 2242
DB 88 AAAAA 84

RESULT 133
ACN88453/C
ID ACN88453 standard; DNA; 358 BP.
XX AC ACN88453;
XX 02-DEC-2004 (first entry)
XX Breast cancer related marker, seq id 9603.
XX Cancer; breast; tumour; cytostatic; marker; detection; therapy; ds.
XX Homo sapiens.
XX US2003099974-A1.
XX 29-MAY-2003.
XX 18-JUL-2002; 2002US-00198846.
XX 18-JUL-2001; 2001US-0306220P.
XX (MILL-) MILLENNIUM PHARM INC.
XX Lillie J, Xu Y, Wang Y, Steinmann K;
XX WPI; 2003-787014/74.
XX Novel isolated polypeptide associated with breast cancer, useful for
XX detecting presence of polypeptide in sample, as a marker for breast
XX cancer.
XX Disclosure; SEQ ID NO 9603; 36pp; English.
XX The invention relates to an isolated polypeptide (I) associated with
XX breast cancer which is encoded by a nucleic acid molecule comprising a
XX nucleotide sequence (S1). Further disclosed is an antibody that binds to
XX the polypeptide of the invention. The activity of the polypeptide of the
XX invention may be described as cytostatic. The antibody is useful for
XX detecting the presence of (I) in a sample. Nucleic acid molecules of the
XX invention are useful in the detection of breast tumours. (I) is useful as
XX a marker for breast cancer and in breast cancer therapy. Sequences given
XX in records ACN78851-ACN92934 represent nucleic acid markers associated
XX with breast cancer. Note: The sequence listing does not form part of the
XX specification but may be obtained in electronic format from the USPTO web
XX site at seqdata.uspto.gov/sequence.html?DocID=2003009974
XX SQ Sequence 358 BP; 99 A; 21 C; 55 G; 147 T; 0 U; 36 Other;
XX Query Match 3.2%; Score 72.6; DB 11; Length 358;
XX Best Local Similarity 72.5%; Pred. No. 5.8e-06;
XX Matches 87; Conservative 0; Mismatches 33; Indels 0; Gaps 0;
QY 2123 TTTGCTTTACACCTTTCTCTTTTATCTTATTAATAAAATGTTGGTCTCCACCTGNC 2182
DB 230 TTTTNNANCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 171
QY 2183 TCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242
DB 170 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 111

RESULT 134
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```
ABX43971/C
ID ABX43971 standard; CDNA; 357 BP.
XX AC ABX43971;
XX 21-FEB-2003 (first entry)
XX Bovine EST associated with lactation/muscle/fat deposition #9136.
XX Bovine; ss; EST; expressed sequence tag; lactation; LMFD;
XX muscle deposition; fat deposition; genome mapping; gene identification;
XX gene analysis; cattle breeding.
XX Bos Taurus.
XX US2002137139-A1.
XX 26-SEP-2002.
XX 24-SEP-2001; 2001US-00960352.
XX 12-JAN-1999; 99US-0115707P.
XX 11-JAN-2000; 2000US-00480902.
XX (BYAT/) BYATT J C.
XX (MATH/) MATHIALAGAN N.
XX (TAON/) TAO N.
XX (WARR/) WARREN W C.
XX Byatt JC, Mathialagan N, Tao N, Warren WC;
XX WPI; 2003-110599/10.
XX New nucleic acid associated with lactation, and muscle and fat
XX deposition, useful for genome mapping, gene identification and analysis,
XX cattle breeding, or for genetically improving cattle.
XX Claim 2; SEQ ID NO 9136; 245pp; English.
XX The invention relates to a purified nucleic acid molecule associated with
XX lactation or muscle and fat deposition (designated LMFD), derived from
XX cattle, and the LMFD nucleic acid can specifically hybridise to a second
XX nucleic acid molecule comprising any of 1512 nucleotide sequences,
XX appearing as ABX34836-ABX49947, or complements of them. Also included are
XX : (1) a transformed cell having a nucleic acid comprising an LMFD nucleic
XX acid linked to a promoter and a 3' non-translated sequence that
XX functions in the cell to cause termination of transcription and addition
XX of polyadenylated ribonucleotides to a 3' end of the mRNA molecule; and
XX (2) determining a level or pattern of a molecule in a bovine cell or
XX tissue comprising: (a) incubating a marker nucleic acid (comprising any
XX of the 1512 nucleic acid sequences or its complement or fragment) with a
XX complementary nucleic acid molecule obtained from the bovine cell or
XX tissue, where hybridisation between the marker nucleic acid and the
XX complementary nucleic acid permits the detection of the molecule; and (b)
XX detecting the level or pattern of the complementary nucleic acid, where
XX the detection of the complementary nucleic acid is predictive of the
XX level or pattern of the molecule. The LMFD nucleic acid is used for
XX determining a level or pattern of a molecule in a bovine cell or tissue.
XX It is useful for genome mapping, gene identification and analysis, cattle
XX breeding, preparation of constructs for use in cattle gene expression, or
XX for genetically improving cattle. The present sequence is one of the
XX 15112 bovine LMFD EST (expressed sequence tag) nucleic acids. Note: The
XX present sequence was not shown in the specification but was obtained in
XX electronic format from the USPTO web site:
XX seqdata.uspto.gov/sequence.html?DocID=20020137139
XX SQ Sequence 357 BP; 60 A; 80 C; 72 G; 145 T; 0 U; 0 Other;
XX Query Match 3.2%; Score 72.4; DB 8; Length 357;
XX Best Local Similarity 82.8%; Pred. No. 6.4e-06;
XX Matches 82; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
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```
QY 2144 TTTATCTTATTATAAAAAATGTTGGTCTCCACCTGNCCTCCCAAAAAAAAAAAAAAAAAA 2203
```

	173	2204	113
Db	TTTATTATTTAAATTAAGCCCATGTGTTTCACAGATGGTTC	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
Qy		AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
Db		AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

RESULT	135	
ADL37255/c		
ID	ADL37255 standard; DNA; 467 BP.	
XX		
XX		
AC	ADL37255;	
XX		
DT	20-MAY-2004 (first entry)	
XX		
DE	Human ovarian cancer DNA marker #11145.	
XX		
KW	Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.	
XX		
OS	Homo sapiens.	
XX		
PN	WQ200170979-A2.	

```
CC time and comparing the level of expression. The method is carried out
CC using an ovarian tissue sample. A composition comprising a marker,
CC polypeptide or antibody of the invention is used to treat ovarian cancer.
CC This sequence represents a human ovarian cancer DNA marker of the
CC invention. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 467 BP; 110 A; 31 C; 38 G; 198 T; 0 U; 90 Other;

Query Match          3.2%; Score 72; DB 5; Length 467;
Best Local Similarity 70.6%; Pred. No. 8.6e-06;
Matches 84; Conservative 0; Mismatches 35; Indels 0; Gaps 0

Qy      2124 TTGCTTTACCACTCTTTCCTTTTATCTATTATAAAAAATGTGGTCTCCACCAC TGNC T 218
       ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      196 TTTTTTTAAGNATTTTTTTTTTNAAAAAAAAAAAAAAAAANGGGNNNGCCCCNNCNCNT 137

Qy      2184 CCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242
       ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      136 NNNAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAA 78

RESULT 136
ADI72106/c
ID ADI72106 standard; DNA; 467 BP.
XX
XX ADI72106;
AC
XX
XX DT 20-MAY-2004 (first entry)
XX
XX Human ovarian cancer DNA marker #4848.
XX
XX Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.
```

(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

Lee J, Lillie J;  
WPI; 2001-611502/70.

Novel isolated nucleic acid molecules (markers) overexpressed in ovarian cancer cells as compared to their normal non-cancerous ovarian cells are used to characterize stage, grade, histological type of ovarian cancer.

Disclosure; SEQ ID NO 11145; 106pb; English.

The invention relates to nucleic acid markers which are overexpressed in ovarian cancer cells as compared to their expression in normal (i.e. non-cancerous) ovarian cells. The invention also relates to polypeptides encoded by the markers, antibodies that selectively bind to the polypeptides, a method of inhibiting ovarian cancer in a patient at risk of developing ovarian cancer involving inhibiting expression of a gene corresponding to a marker of the invention and a method of treating a patient afflicted with ovarian cancer comprising providing to cells of the patient an antisense oligonucleotide complementary to a marker of the invention. The markers are useful for assessing if a patient is afflicted with ovarian cancer, which involves comparing the level of expression of a marker in a patient sample and a normal level of expression of the marker in a control non-ovarian cancer sample. A difference between the expression levels indicates ovarian cancer. The level of expression of a marker corresponds to a secreted protein or to a transcribed polynucleotide or its portion. The level of expression of the marker is assessed by detecting the presence in the sample, a protein or protein fragment corresponding to the marker. The presence of protein or protein fragment is detected using an antibody that specifically binds with the protein or protein fragment. Alternatively, the level of expression of the marker is assessed by detecting the presence of a transcribed polynucleotide which anneals with the marker or anneals with a portion of the polynucleotide comprising the marker, under stringent conditions. The marker is also used for monitoring the progression of ovarian cancer in a patient which involves detecting expression of the marker in a patient sample at a first point in time, repeating the method at a subsequent







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QY 2136 TCTTTCCTTTTATCTTATTATAAATAATGTTGGTCCACCACTGCTCCCAAAAAA 2195
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 159 TTTTTCCTTTTATCTTATTATAAATAATGTTGGTCCACCACTGCTCCCAAAAAA 100
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 2196 AAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 2242
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 99 AAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 53
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 142
AAI93507
ID AAI93507 standard; cDNA; 499 BP.
XX
AC AAI93507;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human polynucleotide SEQ ID NO 13567.
XX
KW Human; cytokine; cell proliferation; cell differentiation; gene therapy;
KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
KW tissue growth factor; immunomodulatory; cancer; leukaemia;
KW nervous system disorders; arthritis; inflammation; ss.
XX
OS Homo sapiens.
XX
PN WO200164835-A2.
XX
PD 07-SEP-2001.
XX
PF 26-FEB-2001; 2001WO-US004927.
XX
PR 28-FEB-2000; 2000US-00515126.
PR 18-MAY-2000; 2000US-00577409.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Drmanac RT;
XX
WPI; 2001-514838/56.
DR P-PSDB; AAO13576.
XX
Isolated nucleic acids and polypeptides, useful for preventing diagnosing
PT and treating e.g. leukemia, inflammation and immune disorders.
XX
Claim 1; SEQ ID NO 13567; 1399pp + Sequence Listing; English.
XX
The invention relates to human polynucleotides (AAI79941-AAI93841) and
CC the encoded proteins (AAO00010-AAO13910) that exhibit activity elating to
CC cytokine, cell proliferation or cell differentiation or which may induce
CC production of other cytokines in other cell populations. The
CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
CC peptide therapy. The polypeptides have various cytokine-like activities,
CC e.g. stem cell growth factor activity, haematopoiesis regulating
CC activity, tissue growth factor activity, immunomodulatory activity and
CC activin/inhibin activity and may be useful in the diagnosis and/or
CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
CC inflammation. Note: The sequence data for this patent did not form part
CC of the printed specification, but was obtained in electronic format
CC directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 499 BP; 169 A; 125 C; 103 G; 95 T; 0 U; 7 Other;

Query Match 3.1%; Score 70.6; DB 4; Length 499;
Best Local Similarity 68.3%; Pred. No. 1.8e-05;
Matches 97; Conservative 0; Mismatches 45; Indels 0; Gaps 0;

QY 2101 ATCATTCATCCCAATGATCGCTTTGGTTCCTTATCCCACTCTTTTCTTTATCTTATTATAA 2160
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 153 ATGGTGCCCACTCATCGCTTTACCGCTACTCTTACCTACTCTCCCTTTTACT 212
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 2161 AATGTTGGTTCACCACTGCTCCCAAAAAAATAAATAAATAAATAAATAA 2220
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

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Db 213 AATAATCTTTATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 272
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 2221 AAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 2242
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 273 AAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 294
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 143
AAI89008
ID AAI89008 standard; cDNA; 428 BP.
XX
AC AAI89008;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human polynucleotide SEQ ID NO 9068.
XX
KW Human; cytokine; cell proliferation; cell differentiation; gene therapy;
KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
KW tissue growth factor; immunomodulatory; cancer; leukaemia;
KW nervous system disorders; arthritis; inflammation; ss.
XX
OS Homo sapiens.
XX
PN WO200164835-A2.
XX
PD 07-SEP-2001.
XX
PF 26-FEB-2001; 2001WO-US004927.
XX
PR 28-FEB-2000; 2000US-00515126.
PR 18-MAY-2000; 2000US-00577409.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Drmanac RT;
XX
WPI; 2001-514838/56.
DR P-PSDB; AAO09077.
XX
Isolated nucleic acids and polypeptides, useful for preventing diagnosing
PT and treating e.g. leukemia, inflammation and immune disorders.
XX
Claim 1; SEQ ID NO 9068; 1399pp + Sequence Listing; English.
XX
The invention relates to human polynucleotides (AAI79941-AAI93841) and
CC the encoded proteins (AAO00010-AAO13910) that exhibit activity elating to
CC cytokine, cell proliferation or cell differentiation or which may induce
CC production of other cytokines in other cell populations. The
CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
CC peptide therapy. The polypeptides have various cytokine-like activities,
CC e.g. stem cell growth factor activity, haematopoiesis regulating
CC activity, tissue growth factor activity, immunomodulatory activity and
CC activin/inhibin activity and may be useful in the diagnosis and/or
CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
CC inflammation. Note: The sequence data for this patent did not form part
CC of the printed specification, but was obtained in electronic format
CC directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 428 BP; 202 A; 60 C; 88 G; 68 T; 0 U; 10 Other;

Query Match 3.1%; Score 70.4; DB 4; Length 428;
Best Local Similarity 76.1%; Pred. No. 1.9e-05;
Matches 86; Conservative 0; Mismatches 27; Indels 0; Gaps 0;

QY 2130 TACCACCTCTTCTTTTATCTTATTATAAATAATGTTGGTCTCCACCACTGCTCCCAA 2189
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 38 TAACCTCGATCCTACTCTCTTATTATAAAGATTTTGTGCAAAAAAATAAATAA 97
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 2190 AAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 2242
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 98 AAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 150
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

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RESULT 144
ABV58017
ID ABV58017 standard; cDNA; 580 BP.
XX
XX
AC ABV58017;
XX
XX 13-SEP-2002 (first entry)
XX
XX Human prostate expression marker cDNA 58008.
XX
XX Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
XX pharmacogenomic marker; gene; ss.
XX
XX Homo sapiens.
XX
XX WO200160860-A2.
XX
XX 23-AUG-2001.
XX
XX 20-FEB-2001; 2001WO-US005171.
XX
XX 17-FEB-2000; 2000US-0183319P.
XX
XX 16-MAR-2000; 2000US-0189862P.
XX
XX 25-MAY-2000; 2000US-0207454P.
XX
XX 09-JUN-2000; 2000US-0211314P.
XX
XX 18-JUL-2000; 2000US-0219007P.
XX
XX 13-DEC-2000; 2000US-0255281P.
XX
XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
XX Schlegel R, Endege WO, Monahan JE;
XX
XX WPI; 2001-662795/76.
XX
XX Novel isolated nucleic acid molecule associated with cancerous state of
XX prostate cells and correlating with presence of prostate cancer, useful
XX for detecting presence of prostate cancer, stage of prostate cancer.
XX
XX Claim 1; Page 11146-11147; 11750pp; English.
XX
XX The invention relates to an isolated nucleic acid molecule (I) comprising
XX a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
XX specification or its complement. (I) is useful for: (a) assessing whether
XX a patient is afflicted with prostate cancer; (b) monitoring the
XX progression of prostate cancer in a patient; (c) assessing the efficacy
XX of a test compound to inhibit prostate cancer in a patient; (d) assessing
XX the efficacy of a therapy for inhibiting prostate cancer in a patient;
XX (e) selecting a composition for inhibiting prostate cancer in a patient;
XX (f) assessing the prostate cell carcinogenic potential of a compound; (g)
XX determining whether prostate cancer has metastasized in a patient; (h)
XX assessing the aggressiveness or indolence of prostate cancer in a patient
XX ; (i) is also useful as a pharmacodynamic or pharmacogenomic marker
XX
XX Sequence 580 BP; 231 A; 129 C; 107 G; 112 T; 0 U; 1 Other;
XX
XX Query Match 3.1%; Score 70.4; DB 5; Length 580;
XX Best Local Similarity 76.1%; Pred. No. 2.1e-05;
XX Matches 86; Conservative 0; Mismatches 27; Indels 0; Gaps 0;
XX
XX Qy 2130 TACCACCTTTTCCCTTTTATCTATTATAAAATGTTGGTCTCCACCACTGCTCCCAAA 2189
XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX Db 65 TAACCTGGATCCTTACTCTCTATTATAAAAGATTTTGTGACAAAAA 124
XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX
XX Qy 2190 AAAAAA 2242
XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX Db 125 AAAAAA 177
XX ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
XX
RESULT 145
AAL35667
ID AAL35667 standard; cDNA; 1095 BP.
XX
XX
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PR	14-SEP-2000;	2000US-0232397P.	PR	05-DEC-2000;	2000US-0251030P.
PR	14-SEP-2000;	2000US-0232398P.	PR	05-DEC-2000;	2000US-0251989P.
PR	14-SEP-2000;	2000US-0232399P.	PR	05-DEC-2000;	2000US-0256719P.
PR	14-SEP-2000;	2000US-0232400P.	PR	06-DEC-2000;	2000US-0251479P.
PR	14-SEP-2000;	2000US-0232401P.	PR	08-DEC-2000;	2000US-0251856P.
PR	14-SEP-2000;	2000US-0233063P.	PR	08-DEC-2000;	2000US-0251868P.
PR	14-SEP-2000;	2000US-0233064P.	PR	08-DEC-2000;	2000US-0251869P.
PR	14-SEP-2000;	2000US-0233065P.	PR	08-DEC-2000;	2000US-0251989P.
PR	21-SEP-2000;	2000US-0234223P.	PR	08-DEC-2000;	2000US-0251990P.
PR	21-SEP-2000;	2000US-0234274P.	PR	11-DEC-2000;	2000US-0254097P.
PR	25-SEP-2000;	2000US-0234997P.	PR	05-JAN-2001;	2001US-0259678P.
PR	26-SEP-2000;	2000US-0235484P.	XX		
PR	27-SEP-2000;	2000US-0235834P.	XX		(HUMA-) HUMAN GENOME SCI INC.
PR	27-SEP-2000;	2000US-0235836P.	PI	Rosen CA, Barash SC, Ruben SM;	
PR	29-SEP-2000;	2000US-0236327P.	XX	WPI; 2001-451937/48.	
PR	29-SEP-2000;	2000US-0236367P.	DR	P-PSDB; ABB04085.	
PR	29-SEP-2000;	2000US-0236368P.	DR		
PR	29-SEP-2000;	2000US-0236369P.	XX		
PR	29-SEP-2000;	2000US-0236370P.	PT	Isolated polypeptide for treating, preventing and/ or prognosing	
PR	02-OCT-2000;	2000US-0236802P.	PT	disorders related to the musculoskeletal system including musculoskeletal	
PR	02-OCT-2000;	2000US-0237037P.	PT	cancers and also for testing and detection e.g. diagnosis.	
PR	02-OCT-2000;	2000US-0237038P.	XX		
PR	02-OCT-2000;	2000US-0237039P.	XX	Claim 1; SEQ ID NO 1009; 781pp + Sequence Listing; English.	
PR	13-OCT-2000;	2000US-0237040P.	XX		
PR	13-OCT-2000;	2000US-0239335P.	CC	The invention relates to novel genes (AAL34669-AAL37666) and proteins	
PR	13-OCT-2000;	2000US-0239337P.	CC	(ABB03087-ABB04109) associated with the musculoskeletal system useful for	
PR	20-OCT-2000;	2000US-0241221P.	CC	preventing, treating or ameliorating medical conditions e.g. by protein	
PR	20-OCT-2000;	2000US-0241785P.	CC	or gene therapy. The genes are isolated from a range of human tissues	
PR	20-OCT-2000;	2000US-0241786P.	CC	disclosed in the specification. The nucleic acids, proteins, antibodies	
PR	20-OCT-2000;	2000US-0241787P.	CC	and (ant)agonists are useful in the diagnosis, treatment and prevention	
PR	20-OCT-2000;	2000US-0241788P.	CC	of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the	
PR	20-OCT-2000;	2000US-0241808P.	CC	adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver,	
PR	20-OCT-2000;	2000US-0241809P.	CC	lung, or urogenital; (b) immune disorders e.g. Addison's disease,	
PR	20-OCT-2000;	2000US-0241826P.	CC	allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis,	
PR	01-NOV-2000;	2000US-0246167P.	CC	diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid	
PR	08-NOV-2000;	2000US-0246474P.	CC	arthritis and ulcerative colitis; (c) cardiovascular disorders such as	
PR	08-NOV-2000;	2000US-0246475P.	CC	myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g.	
PR	08-NOV-2000;	2000US-0246476P.	CC	cerebral anoxia and epilepsy; and (f) infectious diseases such as viral,	
PR	08-NOV-2000;	2000US-0246477P.	CC	bacterial, fungal and parasitic infections. Note: The sequence data for	
PR	08-NOV-2000;	2000US-0246478P.	CC	this patent did not form part of the printed specification, but was	
PR	08-NOV-2000;	2000US-0246523P.	CC	obtained in electronic format directly from WIPO at	
PR	08-NOV-2000;	2000US-0246524P.	CC	ftp.wipo.int/pub/published_pct_sequences	
PR	08-NOV-2000;	2000US-0246525P.	XX		
PR	08-NOV-2000;	2000US-0246526P.	SQ	Sequence 1095 BP; 254 A; 291 C; 221 G; 316 T; 0 U; 13 Other;	
PR	08-NOV-2000;	2000US-0246527P.			
PR	08-NOV-2000;	2000US-0246528P.			
PR	08-NOV-2000;	2000US-0246532P.			
PR	08-NOV-2000;	2000US-0246609P.			
PR	08-NOV-2000;	2000US-0246610P.			
PR	08-NOV-2000;	2000US-0246611P.			
PR	08-NOV-2000;	2000US-0246613P.			
PR	17-NOV-2000;	2000US-0249207P.			
PR	17-NOV-2000;	2000US-0249208P.			
PR	17-NOV-2000;	2000US-0249209P.			
PR	17-NOV-2000;	2000US-0249210P.			
PR	17-NOV-2000;	2000US-0249211P.			
PR	17-NOV-2000;	2000US-0249212P.			
PR	17-NOV-2000;	2000US-0249213P.			
PR	17-NOV-2000;	2000US-0249214P.			
PR	17-NOV-2000;	2000US-0249215P.			
PR	17-NOV-2000;	2000US-0249216P.			
PR	17-NOV-2000;	2000US-0249217P.			
PR	17-NOV-2000;	2000US-0249218P.			
PR	17-NOV-2000;	2000US-0249244P.			
PR	17-NOV-2000;	2000US-0249245P.			
PR	17-NOV-2000;	2000US-0249264P.			
PR	17-NOV-2000;	2000US-0249265P.			
PR	17-NOV-2000;	2000US-0249297P.			
PR	17-NOV-2000;	2000US-0249299P.			
PR	17-NOV-2000;	2000US-0249300P.			
PR	01-DEC-2000;	2000US-0250160P.			
PR	01-DEC-2000;	2000US-0250391P.			
QY	1920	TCGCCACCTGCACACCTCTCTCAAGTCATAGCTGTGTCGAGCAACTGATTTCCCAAGT	1979		
Db	771	TCCTGCTGTCACACCTCTCTGATGTTTTCATCTCTCGTTCTCTTCTGTCATCT	830		
QY	1980	CCTGTGCAATAGCCGCCAGGATTCCTTCCAACTTTTAGCATATCTCCAACTTGC	2039		
Db	831	CCTTTGTAGGAGCGGTGCTTCTCCAGAAGAACCTGAATGCACACTGTA--CTCA	887		
QY	2040	AATTTGATTGGCATAATCACTCCGGTTTCTTAGTCTCTCAAGTCTCGTGACAT	2099		
Db	888	GATTTCTGCTTTAAATATAGGAATGTTTGGTGGACCTTCTCTCTCTGTTAG	947		
QY	2100	AATCATTTCCATCCAATGATCGCTTTTGCTTTTACCACCTTTTCTTTTATTTATAA	2159		
Db	948	AACCATGCTTTTAAATATTAGGAATGTTTGGTGGACCTTCTCTCTCTCTGAAAT	1007		
QY	2160	AAATGTTGGTCTCCACACTGNTCCCAAAAAAATAAAAAAATAAAAAAATAAAAA	2219		
Db	1008	AAACACTGGTCCACCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAA	1067		
QY	2220	AAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAA	2241		
Db	1068	AAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAA	1089		

CC (AAM42347-AAM42415) useful for preventing, treating or ameliorating  
 CC medical conditions e.g. by protein or gene therapy. The genes are  
 CC isolated from a range of human tissues disclosed in the specification.  
 CC The nucleic acids, proteins, antibodies and (ant)agonists are useful in  
 CC the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and  
 CC ovarian cancer and other cancers of the adrenal gland, bone, bone marrow,  
 CC breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune  
 CC disorders e.g. Addison's disease, allergies, autoimmune haemolytic  
 CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,  
 CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)  
 CC cardiovascular disorders such as myocardial ischaemias; (d) wound healing  
 CC ; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)  
 CC infectious diseases such as viral, bacterial, fungal and parasitic  
 CC infections. Note: The sequence data for this patent did not form part of  
 CC the printed specification, but was obtained in electronic format directly  
 CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 1095 BP; 254 A; 291 C; 221 G; 316 T; 0 U; 13 Other;  
 Query Match 3.1%; Score 70.4; DB 4; Length 1095;  
 Best Local Similarity 53.1%; Pred. No. 2.5e-05;  
 Matches 171; Conservative 0; Mismatches 148; Indels 3; Gaps 1;  
 QY 1920 TCCCCCACTGCACACCTTCTCAAGTCATAGCTGCTTGCAGCAACTTGAATTCCTCCCAAGT 1979  
 DB 771 TCCCTGCTGCACACCTTCTCAAGTCATAGCTGCTTGCAGCAACTTGAATTCCTCCCAAGT 830  
 QY 1980 CCTGTGCAATAGCCCCAGGATGGATTCCTTCCACCTTTTAGCATATCTCCACCTTGC 2039  
 DB 831 CCTTTGAGGAGCGGTGCTTCTCCAGAAACCCCTGAATGCACAACTGTA---CTCA 887  
 QY 2040 AATTTGATGGCATAATCACTCCGGTTTGTCTTAGTCTCTCAAGTCTCGTGACACAT 2099  
 DB 888 GATTTCTGCTTTAATCCCTACTCTATCTCTCAGTCCCTAGTGCATCTTGGTAAG 947  
 QY 2100 AATCATTCATCAATGATCGCTTTGCTTTTACCACATCTTTCTCTTTTATCTATTATAAA 2159  
 DB 948 AACCATGCTTTAAATATTAGGAATGTTGTTGGACCTNTCTCTGCTTCTCTGAAT 1007  
 QY 2160 AATGTTGGTCTCCACCACTGCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2219  
 DB 1008 AATACATGGTGGCCAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1067  
 QY 2220 AAAAAAAAAAAAAAAAAAAAAA 2241  
 DB 1068 AAAAAAAAAAAAAAAAAAAAAA 1089  
 RESULT 147  
 ABX58655  
 ID ABX58655 standard; cDNA; 1095 BP.  
 XX  
 AC ABX58655;  
 XX  
 DT 26-FEB-2003 (first entry)  
 XX  
 DE cDNA encoding novel human musculoskeletal system antigen #999.  
 XX  
 KW Gene; ss; musculoskeletal system antigen; cancer; metastasis;  
 KW re-vascularisation; thrombosis; arteriosclerosis; mineral content;  
 KW cardiovascular condition; wound; injury; burn; angiogenesis; ulcer;  
 KW post-operative tissue repair; limb regeneration; neuronal growth;  
 KW neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;  
 KW AIDS-related complex; chondrocyte growth; bone regeneration;  
 KW periodontal regeneration; tissue transport; bone graft; skin aging;  
 KW keratinocyte growth; hair loss; melanocyte growth; cell proliferation;  
 KW cell growth; organ transplant; cell differentiation; body height; weight;  
 KW hair colour; eye colour; skin; percentage of adipose tissue;  
 KW pigmentation; cosmetic surgery; metabolism; biorhythm; cardiac rhythm;  
 KW depression; tendency for violence; pain; reproductive capability;  
 KW hormone level; endocrine level; appetite; libido; memory; stress;  
 KW storage capability; fat content; lipid content; protein content;  
 KW carbohydrate content; vitamin content; cofactor content;

RESULT 146  
 AAI62755  
 ID AAI62755 standard; cDNA; 1095 BP.  
 XX  
 AC AAI62755;  
 XX  
 DT 22-OCT-2001 (first entry)  
 XX  
 DE Human cDNA SEQ ID NO 14.  
 XX  
 KW Human; nootropic; neuroprotective; cytostatic; dermatological; virucide;  
 KW immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnery;  
 KW antiparkinsonian; anticickling; antianaemic; antiarthritic; cancer;  
 KW antirheumatic; hepatotropic; cerebroprotective; antiinflammatory;  
 KW antiallergic; antidiabetic; antiulcer; anticonvulsant; antifungal;  
 KW antiparasitic; cardiac; immune disorder; cardiovascular disorder;  
 KW neurological disease; infection; nephrotropic; gene therapy; vaccine; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO200155449-A1.  
 PN  
 XX 02-AUG-2001.  
 PD  
 XX  
 XX 17-JAN-2001; 2001WO-US001346.  
 PF  
 XX  
 PR 31-JAN-2000; 2000US-0179065P.  
 PR 04-FEB-2000; 2000US-0180628P.  
 PR 19-MAY-2000; 2000US-0205515P.  
 PR 07-JUL-2000; 2000US-0216880P.  
 PR 14-JUL-2000; 2000US-0218290P.  
 PR 14-AUG-2000; 2000US-0225447P.  
 PR 01-SEP-2000; 2000US-0229343P.  
 PR 06-SEP-2000; 2000US-0230437P.  
 PR 08-SEP-2000; 2000US-0231243P.  
 PR 25-SEP-2000; 2000US-0234997P.  
 PR 29-SEP-2000; 2000US-0236367P.  
 PR 13-OCT-2000; 2000US-0239937P.  
 PR 08-NOV-2000; 2000US-0246476P.  
 PR 08-NOV-2000; 2000US-0246477P.  
 PR 08-NOV-2000; 2000US-0246525P.  
 PR 08-NOV-2000; 2000US-0246526P.  
 PR 08-NOV-2000; 2000US-0246528P.  
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 PR 01-DEC-2000; 2000US-0250160P.  
 PR 01-DEC-2000; 2000US-0250391P.  
 PR 05-DEC-2000; 2000US-0251030P.  
 PR 05-DEC-2000; 2000US-0251988P.  
 PR 05-DEC-2000; 2000US-0256719P.  
 PR 06-DEC-2000; 2000US-0251479P.  
 PR 08-DEC-2000; 2000US-0251989P.  
 PR 08-DEC-2000; 2000US-0251990P.  
 PR 11-DEC-2000; 2000US-0254037P.  
 XX  
 PA (HUMA-) HUMAN GENOME SCI INC.  
 XX  
 PI Rosen CA, Barash SC, Ruben SM;  
 XX  
 XX WPI; 2001-476225/51.  
 DR P-PSDB; AAM42350.  
 DR  
 XX Novel plasma membrane associated proteins useful for diagnosing,  
 PT treating, preventing and/or prognosing disorders related to the proteins,  
 PT including cancer, immune response and neuronal disorders.  
 PT  
 XX Claim 1; SEQ ID NO 14; 532pp + Sequence Listing; English.  
 PS  
 XX The invention relates to novel genes (AAI62752-AAI62961) and proteins  
 CC

KW nutritional component.  
XX Homo sapiens.  
OS US2002147140-A1.  
XX 10-OCT-2002.  
XX 17-JAN-2001; 2001US-00764877.  
XX 31-JAN-2000; 2000US-0179065P.  
XX 04-FEB-2000; 2000US-0180628P.  
XX 28-JUN-2000; 2000US-0214896P.  
XX 07-JUL-2000; 2000US-0216647P.  
XX 07-JUL-2000; 2000US-0216880P.  
XX 11-JUL-2000; 2000US-0217487P.  
XX 11-JUL-2000; 2000US-0217496P.  
XX 14-JUL-2000; 2000US-0218290P.  
XX 26-JUL-2000; 2000US-0220963P.  
XX 26-JUL-2000; 2000US-0220964P.  
XX 14-AUG-2000; 2000US-0224518P.  
XX 14-AUG-2000; 2000US-0224519P.  
XX 14-AUG-2000; 2000US-0225267P.  
XX 14-AUG-2000; 2000US-0225268P.  
XX 14-AUG-2000; 2000US-0225270P.  
XX 14-AUG-2000; 2000US-0225447P.  
XX 14-AUG-2000; 2000US-0225575P.  
XX 14-AUG-2000; 2000US-0225758P.  
XX 22-AUG-2000; 2000US-0226868P.  
XX 30-AUG-2000; 2000US-0228924P.  
XX 01-SEP-2000; 2000US-0229287P.  
XX 01-SEP-2000; 2000US-0229343P.  
XX 01-SEP-2000; 2000US-0229344P.  
XX 01-SEP-2000; 2000US-0229345P.  
XX 05-SEP-2000; 2000US-0229509P.  
XX 08-SEP-2000; 2000US-0229513P.  
XX 08-SEP-2000; 2000US-0231413P.  
XX 21-SEP-2000; 2000US-0234223P.  
XX 21-SEP-2000; 2000US-0234274P.  
XX 28-SEP-2000; 2000US-0234997P.  
XX 27-SEP-2000; 2000US-0235834P.  
XX 28-SEP-2000; 2000US-0236327P.  
XX 29-SEP-2000; 2000US-0236367P.  
XX 29-SEP-2000; 2000US-0236368P.  
XX 29-SEP-2000; 2000US-0236369P.  
XX 29-SEP-2000; 2000US-0236370P.  
XX 02-OCT-2000; 2000US-0236802P.  
XX 02-OCT-2000; 2000US-0237037P.  
XX 02-OCT-2000; 2000US-0237038P.  
XX 02-OCT-2000; 2000US-0237039P.  
XX 02-OCT-2000; 2000US-0237040P.  
XX 13-OCT-2000; 2000US-0239335P.  
XX 20-OCT-2000; 2000US-0240960P.  
XX 20-OCT-2000; 2000US-0241785P.  
XX 20-OCT-2000; 2000US-0241809P.  
XX 01-NOV-2000; 2000US-0244617P.  
XX 17-NOV-2000; 2000US-0249299P.  
XX 08-DEC-2000; 2000US-0251856P.  
XX 08-DEC-2000; 2000US-0251868P.  
XX 08-DEC-2000; 2000US-0251869P.  
XX (ROSE/) ROSEN C A.  
XX (RUBE/) RUBEN S M.  
XX (BARA/) BARASH S C.  
XX Rosen CA, Ruben SM, Barash SC;  
XX WPI; 2003-128199/12.  
XX P-PSDB; ABUI3379.  
XX Isolated nucleic acid molecules encoding musculoskeletal system  
XX associated polypeptides, useful for detecting disorders, e.g. cancer.

PS Claim 1; SEQ ID NO 1009; 321pp; English.  
XX The invention describes an isolated nucleic acid molecule comprising a  
CC sequence encoding musculoskeletal system associated polypeptides useful  
CC for detecting disorders, e.g., cancer or cancer metastases, in animals or  
CC humans. The nucleic acid; stimulates re-vascularisation of ischaemic  
CC tissues associated with conditions such as thrombosis, arteriosclerosis,  
CC and other cardiovascular conditions; treats wounds due to injuries,  
CC burns, post-operative tissue repair, and ulcers; stimulates angiogenesis  
CC and limb regeneration; stimulates neuronal growth; can treat and prevent  
CC neuronal damage occurring in certain disorders or neurodegenerative  
CC conditions, such as, Alzheimer's disease, Parkinson's disease, and AIDS-  
CC related complex; stimulates chondrocyte growth, thus they can be used to  
CC enhance bone and periodontal regeneration and aid in tissue transports or  
CC bone grafts; prevents skin aging due to sunburn by stimulating  
CC keratinocyte growth; prevents hair loss, since FGF family members  
CC activate hair-forming cells and promotes melanocyte growth; stimulates  
CC growth and differentiation of hematopoietic cells and bone marrow cells  
CC when used in combination with other cytokines; maintains organs before  
CC transplantation or for supporting cell culture of primary tissues;  
CC induces tissue of mesodermal origin to differentiate in early embryos;  
CC increases or decreases the differentiation or proliferation of embryonic  
CC stem cells, besides, haematopoietic lineage; modulates mammalian  
CC characteristics, such as, body height, weight, hair colour, eye colour,  
CC skin, percentage of adipose tissue, pigmentation, size, and shape (e.g.,  
CC cosmetic surgery); modulates mammalian metabolism; changes mammal's metal  
CC state or physical state by influencing biorhythms, circadian rhythms,  
CC depression, tendency for violence, tolerance for pain, reproductive  
CC capabilities, hormonal or endocrine levels, appetite, libido, memory, or  
CC stress; increases or decreases storage capabilities, fat content, lipid,  
CC protein, carbohydrate, vitamins, minerals, cofactors or other nutritional  
CC components. This sequence encodes a novel human musculoskeletal system  
CC antigen. Note: The sequence data for this patent did not form part of the  
CC printed specification, but was obtained in electronic format directly  
CC from the US patent office at  
CC ftp.segdata.uspto.gov/sequence.html?DocID=20020147140  
XX  
SQ Sequence 1095 BP; 254 A; 291 C; 221 G; 316 T; 0 U; 13 Other;  
Query Match 3.1%; Score 70.4; DB 8; Length 1095;  
Best Local Similarity 53.1%; Pred. No. 2.5e-05;  
Matches 171; Conservative 0; Mismatches 148; Indels 3; Gaps 1;  
QY 1920 TCCCCCAGTCACACCTCCCTCAAGTCATAGCTGCTTGCGCACTTGATTTCCCAACT 1979  
Db 771 TCCCTGCTGCACACCTCCCTCGATGTTTCCATCTCTCCGTTGCTTTTCTGATCT 830  
QY 1980 CCTGTGCAATAGCCCCAGGATTGGATTCTTCCAACTTTTAGCATATCTCCAACCTTGC 2039  
Db 831 CCTTTGTAGGAGCGGTGCTTCTCCAGAGAACCTTGATGCACACTGTA---CTCA 887  
QY 2040 AATTTGATTGGCATATACATCTCCGGTTTGTCTTTAGTTCCTCAAGTGTCTGTGACAT 2099  
Db 888 GATTTCTGTCTTTAATCCCTACTCTATTCTCTCAGTCCCTAGTCTATCTTGTGTAAG 947  
QY 2100 ATCATTTCCATCCATGATCGCTTTGCTTTTACCCTCTTTCTTTTATCTTATTAATTA 2159  
Db 948 AACCATGTTCTTAAATATTAGGAATGTGTTTGGTGGACCTTCTCTCTCTTCTTCTG 1007  
QY 2160 AAATGTTGTTCTTCCACCTAGTCTCCCAAAAAAAGAAAAAAGAAAAAAGAAAAA 2219  
Db 1008 AACACTGGTCCCAACCAAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAA 1067  
QY 2220 AAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAA 2241  
Db 1068 AAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAA 1089  
RESULT 148  
AD28382  
ID ADJ28382 standard; DNA; 1095 BP.  
XX  
AC ADJ28382;

XX DT 20-MAY-2004 (first entry)  
XX DE Human musculoskeletal system-associated contig DNA - SEQ ID 1009.  
XX KW musculoskeletal system; cytostatic; osteopathic; cancer; osteoporosis;  
XX gene therapy; vaccine; human; ds; gene.  
XX OS Homo sapiens.  
XX PN US2004009488-A1.  
XX PD 15-JAN-2004.  
XX PF 13-SEP-2002; 2002US-00242515.  
XX PR 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 24-FEB-2000; 2000US-0184664P.  
PR 02-MAR-2000; 2000US-0186350P.  
PR 16-MAR-2000; 2000US-0189874P.  
PR 17-MAR-2000; 2000US-0190076P.  
PR 18-APR-2000; 2000US-0198112P.  
PR 19-MAY-2000; 2000US-0205515P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 28-JUN-2000; 2000US-0214886P.  
PR 30-JUN-2000; 2000US-0215113P.  
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PR 07-JUL-2000; 2000US-0216880P.  
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PR 01-SEP-2000; 2000US-0229287P.  
PR 01-SEP-2000; 2000US-0229343P.  
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PR 06-SEP-2000; 2000US-0230437P.  
PR 08-SEP-2000; 2000US-0230438P.  
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PR 14-SEP-2000; 2000US-0232401P.  
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PR 02-OCT-2000; 2000US-0237037P.  
PR 02-OCT-2000; 2000US-0237038P.  
PR 02-OCT-2000; 2000US-0237039P.  
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PR 13-OCT-2000; 2000US-0239915P.  
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PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.  
PR 05-DEC-2000; 2000US-0251989P.  
PR 06-DEC-2000; 2000US-0251479P.  
PR 08-DEC-2000; 2000US-0251856P.

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PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251899P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
PR 17-JAN-2001; 2001US-00764877.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Rosen CA, Ruben SM, Barash SC;
XX
XX WPI; 2004-090458/09.
XX P-PSDB; ADJ29405.
XX
XX New nucleic acid molecule, useful for preparing a medicament for
XX preventing, treating or ameliorating a medical condition e.g., cancer of
XX musculoskeletal tissues or osteoporosis.
XX
XX Claim 4; SEQ ID NO 1009; 289pp; English.
XX
XX The invention relates to a novel isolated musculoskeletal system-
XX associated nucleic acid molecule. The nucleic acid of the invention
XX demonstrates cytostatic and osteopathic activities and may be useful for
XX preparing a medicament for preventing, treating or ameliorating a medical
XX condition such as cancer of the musculoskeletal tissues or osteoporosis,
XX possibly via gene therapy or vaccine production. The current sequence is
XX that of the human musculoskeletal system-associated contig DNA of the
XX invention. The current sequence is not shown within the specification per
XX se but is available on the USPTO web-site
XX http://seqdata.uspto.gov/sequence.html?docID=20040009488.
XX
XX Sequence 1095 BP; 254 A; 291 C; 221 G; 316 T; 0 U; 13 Other;
XX
XX Query Match 3.1%; Score 70.4; DB 12; Length 1095;
XX Best Local Similarity 53.1%; Pred. No. 2.5e-05;
XX Matches 171; Conservative 0; Mismatches 148; Indels 3; Gaps 1;
XX
QY 1920 TCCCCACATGCACACCTTCCTCAAGTCATAGCTGCTTGCAGCACTGATTCCTCCCAAGT 1979
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 771 TCCTCTGCTGCACACCTTCCTGATGCTTSTTCCATCTCTCCGTTCTCTTCTGTCATCT 830
QY 1980 CCGTGTCAATPAGCCAGGATTCGATTCCTTCCAACTTTAGCATATCTCCAACTTGC 2039
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 831 CCTTTGTAGAGCGGTGCTTCTCCAGNAGAACCTGATGCACACTGTA--CTCA 887
QY 2040 AATTTGATTGGCAATATCACTCCGGTTTGTCTTAGTCTCTCAAGTCTCGTGACACAT 2099
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 888 GATTTCTGCTTTAATCCCTACTCTATCTCTCAGTCCCTAGTCTATCTTGGTAAG 947
QY 2100 AATCATTCATCCATGATCGCTTTCCTTTTACCACCTCTTCTCTTATCTTATTATTA 2159
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QY 2220 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2241
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DB 1068 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 1089
XX
XX RESULT 149
XX ABT22887/c
XX ID ABT22887 standard; DNA; 317 BP.
XX
XX AC ABT22887;
XX
XX DT 16-APR-2003 (first entry)
XX
XX DE Breast cancer marker gene SEQ ID No 1260.
XX
XX
```

```
KW Cytostatic; vaccine; breast cancer marker gene; breast mass; immunogen;
KW chemotherapy; tumour burden; bait protein; two-hybrid; three-hybrid;
KW surrogate marker gene; pharmacodynamic marker gene; transgenic animal;
KW human; ds.
XX
XX Homo sapiens.
XX
XX WO200285298-A2.
XX
XX 31-OCT-2002.
XX
XX 19-APR-2002; 2002WO-US012612.
XX
XX 20-APR-2001; 2001US-0285163P.
XX
XX (MILL-) MILLENNIUM PHARM INC.
XX
XX Lillie J, Palermo A, Wang Y, Steinmann K, Elias J, Mertens M;
XX
XX WPI; 2003-093053/08.
XX
XX Novel isolated polypeptide encoded by breast cancer marker gene, useful
XX for diagnosing, staging, monitoring, prognosing and treating diseases
XX associated with breast cancer.
XX
XX Disclosure; Page 261; 725pp; English.
XX
XX The invention relates to an isolated polypeptide encoded by a breast
XX cancer marker gene comprising any of 1417 21-805 nucleotide sequences,
XX given in the specification. The methods of the invention are useful for
XX diagnosing patients having an identified breast mass or symptoms
XX associated with breast cancer, to diagnose breast cancer or its
XX precursors, and for monitoring the efficacy of treatment of a breast
XX cancer patient (e.g. efficacy of chemotherapy). The methods are also
XX useful for evaluating a patient before, after or during therapy, to
XX evaluate the reduction in a tumour burden. The breast cancer marker gene
XX proteins are useful as immunogens for raising antibodies, by immunising a
XX mammal with a breast cancer marker protein. The marker proteins are
XX useful as bait proteins in a two-hybrid or three-hybrid assay, to
XX identify other proteins which bind to or interact with the marker
XX proteins. The breast cancer marker genes are useful as surrogate marker
XX genes for one or more disorders, disease states or conditions leading to
XX disease states, in particular, breast cancers. The breast cancer marker
XX genes are useful as pharmacodynamic marker genes. An antibody which
XX selectively binds to a protein of a breast cancer marker gene is useful
XX for treating cancers, particularly breast cancers. The host cell of the
XX invention is useful for producing non-human transgenic animals. This
XX polynucleotide sequence represents one of the breast cancer marker genes
XX of the invention
XX
XX Sequence 317 BP; 73 A; 18 C; 40 G; 112 T; 0 U; 74 Other;
XX
XX Query Match 3.1%; Score 70.2; DB 10; Length 317;
XX Best Local Similarity 52.2%; Pred. No. 1.9e-05;
XX Matches 93; Conservative 0; Mismatches 85; Indels 0; Gaps 0;
XX
QY 2065 TTTCCTTTCTAGTCTCAAGTCTCGTGACACATAATCATTCATCCATGATCGCTT 2124
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 195 TTTTCTTTTNNNNNNNNNTTAAANNNAANVTTTTTNNNNCCCCCCTNNTCGNAT 136
QY 2125 TGCTTTTACCACCTCTTTCTCTTTTATCTTATTAATAAAAAATGTTGGTCTCCACCACTGCTC 2184
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 135 NNNAAAAANNNTTTTTTTTTTTTTTTTTTTTTTNNNNNNNNNNNNNNNNNNNN 76
QY 2185 CCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2242
DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 75 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 18
XX
XX RESULT 150
XX AAI83619
XX ID AAI83619 standard; cDNA; 408 BP.
XX
XX
```

AC AA183619;  
 XX 06-NOV-2001 (first entry)  
 XX Human polynucleotide SEQ ID NO 3679.  
 XX  
 XX Human; cytokine; cell proliferation; cell differentiation; gene therapy;  
 KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;  
 KW tissue growth factor; immunomodulatory; cancer; leukaemia;  
 KW nervous system disorders; arthritis; inflammation; ss.  
 XX Homo sapiens.  
 OS  
 XX WO200164835-A2.  
 FN  
 XX 07-SEP-2001.  
 PD  
 XX 26-FEB-2001; 2001WO-US004927.  
 XX  
 XX 28-FEB-2000; 2000US-00515126.  
 PR  
 XX 18-MAY-2000; 2000US-00577409.  
 XX  
 XX (HYSE-) HYSEQ INC.  
 PA  
 XX Tang YT, Liu C, Drmanac RT;  
 FI  
 XX WPI; 2001-514838/56.  
 XX  
 XX P-PSDB; AAO03688.  
 DR  
 XX Isolated nucleic acids and polypeptides, useful for preventing diagnosing  
 PT and treating e.g. leukemia, inflammation and immune disorders.  
 PT  
 XX Claim 1; SEQ ID NO 3679; 1399pp + Sequence Listing; English.  
 PS  
 XX The invention relates to human polynucleotides (AA179941-AA193841) and  
 CC the encoded proteins (AAO00010-AAO13910) that exhibit activity relating to  
 CC cytokine, cell proliferation or cell differentiation or which may induce  
 CC production of other cytokines in other cell populations. The  
 CC polynucleotides and polypeptides are useful in gene therapy, vaccines or  
 CC peptide therapy. The polypeptides have various cytokine-like activities,  
 CC e.g. stem cell growth factor activity, haematopoiesis regulating  
 CC activity, tissue growth factor activity, immunomodulatory activity and  
 CC activin/inhibin activity and may be useful in the diagnosis and/or  
 CC treatment of cancer, leukaemia, nervous system disorders, arthritis and  
 CC inflammation. Note: The sequence data for this patent did not form part  
 CC of the printed specification, but was obtained in electronic format  
 CC directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 XX Sequence 408 BP; 201 A; 33 C; 57 G; 103 T; 0 U; 14 Other;  
 SQ  
 Query Match 3.1%; Score 70.2; DB 4; Length 408;  
 Best Local Similarity 60.3%; Pred. No. 2e-05;  
 Matches 114; Conservative 0; Mismatches 75; Indels 0; Gaps 0;  
 QY 2054 AATCACTCCGGTTGCTTTCTAGTCTCAAGTCTCGTGACACATAATCATTCATCCCA 2113  
 DB 107 AAAAAACATGTGTAGAGGTTTATTACCTTAGGAGATTTTAAATATCATTTATCTGTAA 166  
 QY 2114 ATGATCGCTTGGCTTTTACCACTCTTCCCTTTATCTATTATAAAGTTGGCTCC 2173  
 DB 167 ATTTAGTTGTTGCATCAGACATTTTGTCTCACTTTTCCCTTTAAATATATCTTTATAC 226  
 QY 2174 ACCACTGCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2233  
 DB 227 CANAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 286  
 QY 2234 AAAAAAATA 2242  
 DB 287 AAAAAAATA 295  
 RESULT 151  
 ACN51998/c

10  
 ID ACN51998 standard; cDNA; 464 BP.  
 XX ACN51998;  
 XX 02-DEC-2004 (first entry)  
 DT  
 XX Cotton androecium tissue EST Clone ID: LIB3828-010-Q1-N6-E3, SEQ:6779.  
 DE  
 XX Cotton; plant; EST; expressed sequence tag; transgenic plant; androecium;  
 KW variety Nucotton33B; library LIB3828; molecular tag; molecular marker;  
 KW genetic mapping; molecular mapping; seed germination; plant growth;  
 KW plant quality; plant yield; plant breeding; tissue printing; ss.  
 XX Gossypium hirsutum.  
 OS  
 XX US2004123340-A1.  
 FN  
 XX 24-JUN-2004.  
 PD  
 XX 12-DEC-2001; 2001US-00021323.  
 XX  
 XX 14-DEC-2000; 2000US-0255619P.  
 PR  
 XX (DEIK/) DEIKMAN J.  
 PA (FENG/) FENG P C C.  
 PA (FINC/) FINCHER K L.  
 PA (ZIEG/) ZIEGLER T E.  
 XX  
 XX Deikman J, Feng PCC, Fincher KL, Ziegler TE;  
 FI  
 XX WPI; 2004-479808/45.  
 DR  
 XX New isolated nucleic acid molecule that encodes a plant protein or its  
 PT fragment, useful for isolating a variety of agronomically significant  
 PT genes associated with plant growth, quality or yield, and as molecular  
 PT tags to map genes.  
 XX  
 XX Claim 1; SEQ ID NO 6779; 34pp; English.  
 PS  
 XX The invention relates to 17880 cotton expressed sequence tags (ESTs;  
 CC ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated  
 CC from primed or non-primed seeds from variety DP50B, mature seeds from  
 CC variety Coker 312 Boswell 96 Field, and androecium tissue, gynoecium  
 CC tissue, developing fibres, carpel walls and septa from variety  
 CC Nucotton33B. The invention also relates to substantially purified  
 CC proteins or their fragments encoded by nucleic acid molecules of the  
 CC invention, and to transformed plants having a nucleic acid construct  
 CC comprising a nucleic acid of the invention. The cotton ESTs are useful as  
 CC molecular tags to isolate genetic regions, to isolate genes, to map  
 CC genes, to determine gene function and to determine whether genes are  
 CC members of a particular gene family. The nucleic acid molecules may be  
 CC used for isolating a variety of agronomically significant genes  
 CC associated with plant growth, quality, yield, and could also serve as  
 CC links in metabolic and catabolic pathways. The nucleic acid molecules are  
 CC also useful for identifying genes important in initiating and maintaining  
 CC seed germination or that may be used to mitigate stresses encountered  
 CC during seed germination. The ESTs additionally enable the acquisition of  
 CC promoters and cis-regulatory elements which will be useful to express  
 CC agronomically significant genes in these tissues and/or other tissues,  
 CC and also permits the acquisition of molecular markers useful in breeding  
 CC schemes, genetic and molecular mapping, and in cloning of agronomically  
 CC significant genes. The nucleic acid molecules are further useful for  
 CC detecting the expression level or pattern of a protein or mRNA and for  
 CC detecting the presence or quantity of a protein by tissue printing. The  
 CC present sequence represents a specifically claimed EST isolated from a  
 CC cotton variety Nucotton33B androecium tissue cDNA library (LIB3828). The  
 CC sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from the US  
 CC patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340  
 XX  
 XX Sequence 464 BP; 222 A; 5 C; 106 G; 131 T; 0 U; 0 Other;  
 SQ  
 Query Match 3.1%; Score 70.2; DB 13; Length 464;

```

Best Local Similarity 72.6%; Pred. No. 2 le-05;
Matches 90; Conservative 0; Mismatches 34; Indels 0; Gaps 0;

QY 2119 CGCCTTTGCTTACCACTCTTCTTTTATCTTATTAATAAAAGTTGGTCTCCACCAC 2178
DB 171 CCCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 112
QY 2179 TGNCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2238
DB 111 CCCCCCCCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 52
QY 2239 AAAA 2242
DB 51 AAAA 48

RESULT 152
ACN506093/C
ID ACN506093 standard; cDNA; 594 BP.
XX ACN506093;
XX
DT 02-DEC-2004 (first entry)
XX
DE Cotton gynoecium tissue EST Clone ID: LIB3829-030-Q6-N6-AB, SEQ:15774.
XX
XX Cotton; plant; EST; expressed sequence tag; transgenic plant; gynoecium;
KW variety Nucotton33B; library LIB3829; molecular tag; molecular marker;
KW genetic mapping; molecular mapping; seed germination; plant growth;
KW plant quality; plant yield; plant breeding; tissue printing; ss.
XX
OS Gossypium hirsutum.
XX
PN US2004123340-A1.
XX
PD 24-JUN-2004.
XX
PF 12-DEC-2001; 2001US-00021323.
XX
PR 14-DEC-2000; 2000US-0255619P.
XX
PA (DEIK/) DEIKMAN J.
XX PA (FENG/) FENG P C C.
XX PA (FINC/) FINCHER K L.
XX PA (ZIEG/) ZIEGLER T E.
XX
PI Deikman J, Feng PCC, Fincher KL, Ziegler TE;
XX
DR WPI; 2004-479808/45.
XX
XX New isolated nucleic acid molecule that encodes a plant protein or its
PT fragment, useful for isolating a variety of agronomically significant
PT genes associated with plant growth, quality or yield, and as molecular
PT tags to map genes.
XX
PS Claim 1; SEQ ID NO 15774; 34pp; English.
XX
XX The invention relates to 17880 cotton expressed sequence tags (ESTs;
CC ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated
CC from primed or non-primed seeds from variety DP50B, mature seeds from
CC variety Coker 312 Boswell 96 Field, and androecium tissue, gynoecium
CC tissue, developing fibres, carpel walls and septa from variety
CC Nucotton33B. The invention also relates to substantially purified
CC proteins or their fragments encoded by nucleic acid molecules of the
CC invention, and to transformed plants having a nucleic acid construct
CC comprising a nucleic acid of the invention. The cotton ESTs are useful as
CC molecular tags to isolate genetic regions, to isolate genes, to map
CC genes, to determine gene function and to determine whether genes are
CC members of a particular gene family. The nucleic acid molecules may be
CC used for isolating a variety of agronomically significant genes
CC associated with plant growth, quality, yield, and could also serve as
CC links in metabolic and catabolic pathways. The nucleic acid molecules are
CC also useful for identifying genes important in initiating and maintaining

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CC seed germination or that may be used to mitigate stresses encountered
CC during seed germination. The ESTs additionally enable the acquisition of
CC promoters and cis-regulatory elements which will be useful to express
CC agronomically significant genes in these tissues and/or other tissues,
CC and also permits the acquisition of molecular markers useful in breeding
CC schemes, genetic and molecular mapping, and in cloning of agronomically
CC significant genes. The nucleic acid molecules are further useful for
CC detecting the expression level or pattern of a protein or mRNA and for
CC detecting the presence or quantity of a protein by tissue printing. The
CC present sequence represents a specifically claimed EST isolated from a
CC cotton variety Nucotton33B gynoecium tissue cDNA library (LIB3829). The
CC sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from the US
CC patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340
XX
SQ Sequence 594 BP; 275 A; 38 C; 173 G; 108 T; 0 U; 0 Other;

Query Match 3.1%; Score 70.2; DB 13; Length 594;
Best Local Similarity 55.9%; Pred. No. 2.3e-05;
Matches 132; Conservative 0; Mismatches 104; Indels 0; Gaps 0;

QY 2007 CCTTCCAACTTTTAGCATATCTCCAACTTGCATTTGATGGCATATACACTCCGGTT 2066
DB 256 CCCCCCCCCCTTTTCTCCCTTTTCTCCCTTTTCTCCCTTTTCTCCCTTTTCTCCCTTT 197
QY 2067 TCGTTTCTAGGTCCTCAAGTCTCGTGACACATAATCATTCATCCATCAATGATCGCCTTG 2126
DB 196 TTTTCTTTTCTTTTCTCCCTTTTCTCCCTTTTCTCCCTTTTCTTTCTCCCTTTTCTTTT 137
QY 2127 CTTTACCACCTTTTCTCTTTTATCTTATTAATAAAATGTTGGTCTCCACCACCTGCTCC 2186
DB 136 TTTTCTCCATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 77
QY 2187 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2242
DB 76 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 21

RESULT 153
ACN506093/C
ID ACN50609 standard; cDNA; 616 BP.
XX ACN50609;
XX
DT 02-DEC-2004 (first entry)
XX
DE Cotton mature seed EST Clone ID: LIB3827-002-Q1-N6-D5, SEQ:5390.
XX
XX Cotton; plant; EST; expressed sequence tag; transgenic plant; seed;
KW variety Coker 312 Boswell 96 Field; library LIB3827; molecular tag;
KW molecular marker; genetic mapping; molecular mapping; seed germination;
KW plant growth; plant quality; plant yield; plant breeding;
KW tissue printing; ss.
XX
OS Gossypium hirsutum.
XX
PN US2004123340-A1.
XX
PD 24-JUN-2004.
XX
PF 12-DEC-2001; 2001US-00021323.
XX
PR 14-DEC-2000; 2000US-0255619P.
XX
XX (DEIK/) DEIKMAN J.
XX PA (FENG/) FENG P C C.
XX PA (FINC/) FINCHER K L.
XX PA (ZIEG/) ZIEGLER T E.
XX
PI Deikman J, Feng PCC, Fincher KL, Ziegler TE;
XX
XX WPI; 2004-479808/45.
XX
XX

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Db	1437	CTTTGTGCAATTTCCCATTTTATTTTTTTAAATATAATATGATCTAAAGCCAAAAAAA	1498
Qy	2187	AA	2242
Db	1497	AA	1552
RESULT 156			
ABV04355/C			
ID	ABV04355	standard; cDNA; 381 BP.	
XX	AC	ABV04355;	
XX	XX		
DT	13-SEP-2002	(first entry)	
XX	XX		
DE	XX	Human prostate expression marker cDNA 4346.	
XX	XX	Human prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;	
KW	XX	pharmacogenomic marker; gene; ss.	
KW	XX		
OS	XX	Homo sapiens.	
XX	XX		
FN	XX	W0200160860-A2.	
XX	XX		
PD	XX	23-AUG-2001.	
XX	XX		
PF	XX	20-FEB-2001; 2001WO-US005171.	
XX	XX		
PR	17-FEB-2000; 2000US-0183319P.		
PR	16-MAR-2000; 2000US-0189862P.		
PR	25-MAY-2000; 2000US-0207454P.		
PR	09-JUN-2000; 2000US-0211314P.		
PR	18-JUL-2000; 2000US-0219007P.		
PR	13-DEC-2000; 2000US-0255281P.		
XX	XX		
PA	(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.		
XX	XX		
PI	XX	Schlegel R, Endege WO, Monahan JE;	
DR	XX	WPI; 2001-662795/76.	
XX	XX		
PT	Novel isolated nucleic acid molecule associated with cancerous state of		
PT	prostate cells and correlating with presence of prostate cancer, useful		
PT	for detecting presence of prostate cancer, stage of prostate cancer.		
PS	Claim 1; Page 755-756; 11750pp; English.		
XX	XX		
CC	The invention relates to an isolated nucleic acid molecule (I) comprising		
CC	a nucleotide sequence given in tables 1-9 (ABV00010-ABV62213) of the		
CC	specification or its complement. (i) is useful for: (a) assessing whether		
CC	a patient is afflicted with prostate cancer; (b) monitoring the		
CC	progression of prostate cancer in a patient; (c) assessing the efficacy		
CC	of a test compound to inhibit prostate cancer in a patient; (d) assessing		
CC	the efficacy of a therapy for inhibiting prostate cancer in a patient;		
CC	(e) selecting a composition for inhibiting prostate cancer in a patient;		
CC	(f) assessing the prostate cell carcinogenic potential of a compound; (g)		
CC	determining whether prostate cancer has metastasized in a patient; (h)		
CC	assessing the aggressiveness or indolence of prostate cancer in a patient		
CC	; (I) is also useful as a pharmacodynamic or pharmacogenomic marker		
XX	XX		
SQ	Sequence 381 BP; 85 A; 48 C; 43 G; 130 T; 0 U; 75 Other;		
Query Match 3.1%; Score 70; DB 5; Length 381;			
Best Local Similarity 46.5%; Pred. No. 2.2e-05;			
Matches 112; Conservative 0; Mismatches 129; Indels 0; Gaps 0;			
Qy	2002	GGATTCTCTTCCCAACCTTTTAGCATATCTCCAACCTTGCAATTTGATTTGGCATAATCACTC	2061
Db	301	GGGTTTTTTTAAATTNGNCCTTTTGGNNGGTTTNNTTTTTTTGGGGGNAAGNCC	242
Qy	2062	CGGTTTGCTTTCTAGTCTCTCAAGTGTGCGTGACACATAATCATTTCCATCCAAATGATCGC	2121
Db	241	CNGTTTTTTNNNNNNNTAAANNTTTTTTNCANNNNTTTTTTTTNCNNNNNNNNNNC	182



CC the polynucleotide comprising the marker, under stringent conditions. The  
 CC marker is also used for monitoring the progression of ovarian cancer in a  
 CC patient which involves detecting expression of the marker in a patient  
 CC sample at a first point in time, repeating the method at a subsequent  
 CC time and comparing the level of expression. The method is carried out  
 CC using an ovarian tissue sample. A composition comprising a marker,  
 CC polypeptide or antibody of the invention is used to treat ovarian cancer.  
 CC This sequence represents a human ovarian cancer DNA marker of the  
 CC invention. Note: the sequence data for this patent did not form part of  
 CC the printed specification, but was obtained in electronic format directly  
 CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.

XX SQ Sequence 425 BP; 103 A; 64 C; 96 G; 162 T; 0 U; 0 Other;

Query Match 3.1%; Score 69.8; DB 5; Length 425;  
 Best Local Similarity 73.0%; Pred. No. 2.5e-05;  
 Matches 89; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

QY 2121 CCTTTCCTTTACCACTCTTTCTCTTTTATCTTATTAATAAAATGTTGGTCTCCACCACCTG 2180  
 Db 220 CCTTGGCCCCCCCCCTTTTTTTTTTCCCTTTTAAAGAGAATTTTCCCCCCCCAA 161

QY 2181 NCTCCCAAA 2240  
 Db 160 AAA 101

QY 2241 AA 2242

Db 100 AA 99

RESULT 159

ADI72087/C

ID ADI72087 standard; DNA; 491 BP.

AC ADI72087;

DT 20-MAY-2004 (first entry)

DE Human ovarian cancer DNA marker #4829.

XX Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.

XX Homo sapiens.

XX WO200170979-A2.

PN 27-SEP-2001.

XX 21-MAR-2001; 2001WO-US009126.

XX 21-MAR-2000; 2000US-0191031P.

PR 25-MAY-2000; 2000US-0207124P.

PR 15-JUN-2000; 2000US-0211940P.

PR 07-JUL-2000; 2000US-0216820P.

PR 25-JUL-2000; 2000US-0220651P.

PR 21-DEC-2000; 2000US-0257672P.

XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

XX Lee J, Lillie J;

XX WPI; 2001-611502/70.

XX Novel isolated nucleic acid molecules (markers) overexpressed in ovarian  
 PT cancer cells as compared to their normal non-cancerous ovarian cells are  
 PT used to characterize stage, grade, histological type of ovarian cancer.

PS Disclosure; SEQ ID NO 4829; 106pp; English.

XX The invention relates to nucleic acid markers which are overexpressed in  
 CC ovarian cancer cells as compared to their expression in normal (i.e. non-  
 CC cancerous) ovarian cells. The invention also relates to polypeptides

CC encoded by the markers, antibodies that selectively bind to the  
 CC polypeptides, a method of inhibiting ovarian cancer in a patient at risk  
 CC of developing ovarian cancer involving inhibiting expression of a gene  
 CC corresponding to a marker of the invention and a method of treating a  
 CC patient afflicted with ovarian cancer comprising providing to cells of the  
 CC patient an antisense oligonucleotide complementary to a marker of the  
 CC invention. The markers are useful for assessing if a patient is afflicted  
 CC with ovarian cancer, which involves comparing the level of expression of  
 CC a marker in a patient sample and a normal level of expression of the  
 CC marker in a control non-ovarian cancer sample. A difference between the  
 CC expression levels indicates ovarian cancer. The level of expression of a  
 CC marker corresponds to a secreted protein or to a transcribed  
 CC polynucleotide or its portion. The level of expression of the marker is  
 CC assessed by detecting the presence in the sample, a protein or protein  
 CC fragment corresponding to the marker. The presence of protein or protein  
 CC fragment is detected using an antibody that specifically binds with the  
 CC protein or protein fragment. Alternatively, the level of expression of  
 CC the marker is assessed by detecting the presence of a transcribed  
 CC polynucleotide which anneals with the marker or anneals with a portion of  
 CC the polynucleotide comprising the marker, under stringent conditions. The  
 CC marker is also used for monitoring the progression of ovarian cancer in a  
 CC patient which involves detecting expression of the marker in a patient  
 CC sample at a first point in time, repeating the method at a subsequent  
 CC time and comparing the level of expression. The method is carried out  
 CC using an ovarian tissue sample. A composition comprising a marker,  
 CC polypeptide or antibody of the invention is used to treat ovarian cancer.  
 CC This sequence represents a human ovarian cancer DNA marker of the  
 CC invention. Note: the sequence data for this patent did not form part of  
 CC the printed specification, but was obtained in electronic format directly  
 CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.

XX SQ Sequence 491 BP; 119 A; 56 C; 73 G; 163 T; 0 U; 80 Other;

Query Match 3.1%; Score 69.8; DB 5; Length 491;

Best Local Similarity 70.5%; Pred. No. 2.6e-05;

Matches 86; Conservative 0; Mismatches 36; Indels 0; Gaps 0;

QY 2121 CCTTTCCTTTACCACTCTTTCTCTTTTATCTTATTAATAAAATGTTGGTCTCCACCACCTG 2180  
 Db 169 CANTNTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNNAAAAATTTTTTTTNCCTCCNAAA 110

QY 2181 NCTCCCAAA 2240  
 Db 109 AAA 50

QY 2241 AA 2242

Db 49 AA 48

RESULT 160

ADL37236/C

ID ADL37236 standard; DNA; 491 BP.

XX ADL37236;

DT 20-MAY-2004 (first entry)

XX Human ovarian cancer DNA marker #11126.

XX Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.

XX Homo sapiens.

XX WO200170979-A2.

PN 27-SEP-2001.

XX 21-MAR-2001; 2001WO-US009126.

XX 21-MAR-2000; 2000US-0191031P.

PR 25-MAY-2000; 2000US-0207124P.

PR 15-JUN-2000; 2000US-0211940P.

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PR 07-JUL-2000; 2000US-0216820P.
PR 25-JUL-2000; 2000US-0220661P.
PR 21-DEC-2000; 2000US-0257672P.
PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX Lee J, Lillie J;
XX WPI; 2001-611502/70.
XX Novel isolated nucleic acid molecules (markers) overexpressed in ovarian
XX cancer cells as compared to their normal non-cancerous ovarian cells are
XX used to characterize stage, grade, histological type of ovarian cancer.
XX Disclosure; SEQ ID NO 11126; 106pp; English.
XX The invention relates to nucleic acid markers which are overexpressed in
XX ovarian cancer cells as compared to their expression in normal (i.e. non-
XX cancerous) ovarian cells. The invention also relates to polypeptides
XX encoded by the markers, antibodies that selectively bind to the
XX polypeptides, a method of inhibiting ovarian cancer in a patient at risk
XX of developing ovarian cancer involving inhibiting expression of a gene
XX corresponding to a marker of the invention and a method of treating a
XX patient afflicted with ovarian cancer comprising providing to cells of
XX the patient an antisense oligonucleotide complementary to a marker of the
XX invention. The markers are useful for assessing if a patient is afflicted
XX with ovarian cancer, which involves comparing the level of expression of
XX a marker in a patient sample and a normal level of expression of the
XX marker in a control non-ovarian cancer sample. A difference between the
XX expression levels indicates ovarian cancer. The level of expression of a
XX marker corresponds to a secreted protein or to a transcribed
XX polynucleotide or its portion. The level of expression of the marker is
XX assessed by detecting the presence in the sample, a protein or protein
XX fragment corresponding to the marker. The presence of protein or protein
XX fragment is detected using an antibody that specifically binds with the
XX protein or protein fragment. Alternatively, the level of expression of
XX the marker is assessed by detecting the presence of a transcribed
XX polynucleotide which anneals with the marker or anneals with a portion
XX of the polynucleotide comprising the marker, under stringent conditions. The
XX marker is also used for monitoring the progression of ovarian cancer in a
XX patient which involves detecting expression of the marker in a patient
XX sample at a first point in time, repeating the method at a subsequent
XX time and comparing the level of expression. The method is carried out
XX using an ovarian tissue sample. A composition comprising a marker,
XX polypeptide or antibody of the invention is used to treat ovarian cancer.
XX This sequence represents a human ovarian cancer DNA marker of the
XX invention.
XX SQ Sequence 491 BP; 119 A; 56 C; 73 G; 163 T; 0 U; 80 Other;
Query Match 3.1%; Score 69.8; DB 5; Length 491;
Best Local Similarity 70.5%; Pred. No. 2.6e-05;
Matches 86; Conservative 0; Mismatches 36; Indels 0; Gaps 0;
Qy 2121 CCTTGGCTTACCACTCTTCTTTATCTATTATTAATAAAATGTGCTCCACCACTG 2180
Db 169 CANTNTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNNAAAAAANTTTTTTNCCTCCNAAA 110
Qy 2181 NCTCCAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2240
Db 109 AAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 50
Qy 2241 AA 2242
Db 49 AA 48
RESULT 161
ACN57165/C
ID ACN57165 standard; cDNA; 541 BP.
XX ACN57165;
XX ACN57165;
```

02-DEC-2004 (first entry)

Cotton gynoeceum tissue EST Clone ID: LIB3829-014-Q6-N6-G1, SEQ:11946.

Cotton; plant; EST; expressed sequence tag; transgenic plant; gynoeceum; variety Nucotton33B; library LIB3829; molecular tag; molecular marker; genetic mapping; molecular mapping; seed germination; plant growth; plant quality; plant yield; plant breeding; tissue printing; ss.

Gossypium hirsutum.

US2004123340-A1.

24-JUN-2004.

12-DEC-2001; 2001US-00021323.

14-DEC-2000; 2000US-02555619P.

(DEIK/) DEIKMAN J.

(FENG/) FENG P C C.

(FINC/) FINCHER K L.

(ZIEG/) ZIEGLER T E.

Deikman J, Feng PCC, Fincher KL, Ziegler TE;

WPI; 2004-479808/45.

New isolated nucleic acid molecule that encodes a plant protein or its fragment, useful for isolating a variety of agronomically significant genes associated with plant growth, quality or yield, and as molecular tags to map genes.

Claim 1; SEQ ID NO 11946; 34pp; English.

The invention relates to 17880 cotton expressed sequence tags (ESTs; ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated from primed or non-primed seeds from variety DP50B, mature seeds from variety Coker 312 Boswell 96 Field, and androecium tissue, gynoeceum tissue, developing fibres, carpel walls and septa from variety Nucotton33B. The invention also relates to substantially purified proteins or their fragments encoded by nucleic acid molecules of the invention, and to transformed plants having a nucleic acid construct comprising a nucleic acid of the invention. The cotton ESTs are useful as molecular tags to isolate genetic regions, to isolate genes, to map genes, to determine gene function and to determine whether genes are members of a particular gene family. The nucleic acid molecules may be used for isolating a variety of agronomically significant genes associated with plant growth, quality, yield, and could also serve as links in metabolic and catabolic pathways. The nucleic acid molecules are also useful for identifying genes important in initiating and maintaining seed germination or that may be used to mitigate stresses encountered during seed germination. The ESTs additionally enable the acquisition of promoters and cis-regulatory elements which will be useful to express agronomically significant genes in these tissues and/or other tissues, and also permits the acquisition of molecular markers useful in breeding schemes, genetic and molecular mapping, and in cloning of agronomically significant genes. The nucleic acid molecules are further useful for detecting the expression level or pattern of a protein or mRNA and for detecting the presence or quantity of a protein by tissue printing. The present sequence represents a specifically claimed EST isolated from a cotton variety Nucotton33B gynoeceum tissue cDNA library (LIB3829). The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from the US patent office at seqdata.uspto.gov/sequence.html?docID=US20040123340

Sequence 541 BP; 179 A; 80 C; 79 G; 203 T; 0 U; 0 Other;

Query Match 3.1%; Score 69.8; DB 13; Length 541;

Best Local Similarity 60.8%; Pred. No. 2.7e-05;

Matches 113; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

Qy 2057 CACTCCGGTTTGTCTTCTAGGTCCTCAAGTGCTCGTGACACATAATCATTCATCCCAATG 2116



PT Novel proteins and polypeptides useful for the treatment of e.g multiple  
 PT sclerosis, systemic lupus erythematosus, rheumatoid arthritis, cancer,  
 XX Alzheimer's disease, Parkinson's disease, stroke, anemia and ulcers.  
 PS Claim 102; Page 446-447; 43pp; English.

XX This invention relates to 59 human secreted proteins and the nucleotide  
 CC sequences encoding them. Sequences AAC59788-C59846 and the nucleotide  
 CC represent the proteins and their encoding nucleotide sequences, and  
 CC sequences AAB34746-B34771 represent fragments of the proteins. Probes for  
 CC the DNA sequences are represented by sequences AAC59847-C59596. The  
 CC proteins exhibit neuroprotective, dermatological, immunosuppressive,  
 CC antiinflammatory, antianemic, nootropic, antiparkinsonian,  
 CC cerebroprotective, haemostatic, vulnerary, cytostatic, antipsoriatic,  
 CC antibacterial, virucide, and fungicide activity. The proteins and  
 CC nucleotide sequences are useful as nutritional sources or supplements and  
 CC in research. The proteins are useful for treating immune deficiency and  
 CC disorders, which may be genetic or resulting from infections, autoimmune  
 CC disorders such as multiple sclerosis, systemic lupus erythematosus,  
 CC rheumatoid arthritis, and for treating myeloid or lymphoid cell  
 CC deficiencies such as anaemias by regulating haematopoiesis. The proteins  
 CC are also useful in compositions for bone, cartilage, tendon, ligament  
 CC and/or nerve tissue growth or regeneration, for wound healing, tissue  
 CC repair and replacement and in the treatment of wounds, incisions and  
 CC ulcers. Other uses include in the treatment of central and peripheral  
 CC nervous system and neuropathies such as Alzheimer's and Parkinson's  
 CC diseases and Shy-Drager syndrome, and mechanical and traumatic disorders,  
 CC such as spinal cord disorders, head trauma and stroke. The proteins may  
 CC also be used as a contraceptive, and for treating coagulation disorders  
 CC such as haemophilias. The protein and nucleotide sequences with cadherin  
 CC activity are useful for treating cancer. Other uses for the protein  
 CC include for inhibiting the growth, infection or function of, or killing,  
 CC infectious agents such as bacteria, virus, fungi and other parasites, for  
 CC effecting bodily characteristics such as height, weight, hair colour,  
 CC effecting biorhythms or cardiac cycles or rhythms, effecting metabolism,  
 CC catabolism, anabolism, processing, utilization, storage or elimination of  
 CC dietary fat, lipid, protein, carbohydrate, vitamins, minerals, cofactors,  
 CC effecting behavioural characteristics, providing analgesic effects and  
 CC for treating hyperproliferative disorders such as psoriasis

XX Sequence 1792 BP; 417 A; 507 C; 387 G; 481 T; 0 U; 0 Other;

Query Match 3.1%; Score 69.8; DB 3; Length 1792;  
 Best Local Similarity 81.6%; Pred. No. 4e-05;  
 Matches 80; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

Qy 2145 TTATCTTATTATAAATGTGGTCTCCACACTGNCCTCCAAAAAATGTTGG 2204  
 |||||  
 Db 1691 TTTTATTATCATTAATACTAGTCTCTGTTTGTCTCCGAAAAAATGTTGG 1750  
 |||||

Qy 2205 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242  
 |||||  
 Db 1751 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1788  
 |||||

RESULT 164  
 AAL14832/C  
 ID AAL14832 standard; cDNA; 287 BP.  
 XX  
 AC AAL14832;  
 XX

DT 07-DEC-2001 (first entry)  
 XX  
 DE Human breast cancer expressed polynucleotide 7289.

XX Human; breast cancer; cell marker; cytostatic; ss.  
 XX Homo sapiens.

OS WO200151628-A2.  
 XX  
 PN 19-JUL-2001.

PD  
 XX

PF 10-JAN-2001; 2001WO-US000798.  
 XX  
 PR 14-JAN-2000; 2000US-0176077P.  
 PR 14-MAR-2000; 2000US-0189167P.  
 PR 24-MAR-2000; 2000US-0192099P.  
 PR 29-MAR-2000; 2000US-0193480P.  
 PR 15-MAY-2000; 2000US-0205230P.  
 PR 09-JUN-2000; 2000US-0211315P.  
 PR 25-JUL-2000; 2000US-0220534P.  
 XX  
 PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

XX Lillie J, Xu Y, Wang Y, Steinmann K;  
 XX WPI; 2001-451856/48.

XX New peptide useful as a marker for the diagnosis of breast cancer.

XX Claim 1; Page 1315; 3695pp; English.  
 XX  
 CC The invention relates to human breast cancer expressed polynucleotides  
 CC (AAL07544-AAL26789) and methods of assessing whether a patient is  
 CC afflicted with breast cancer by examining the correlation between the  
 CC expression of certain markers and the cancerous state of breast cells.  
 CC The polynucleotides and encoded polypeptides are potential markers for  
 CC detecting, diagnosing, monitoring, characterizing treating and  
 CC potentially preventing breast cancer. The polynucleotides and encoded  
 CC polypeptides are also useful for isolating compounds with cytostatic  
 CC activity

XX Sequence 287 BP; 84 A; 25 C; 12 G; 127 T; 0 U; 39 Other;  
 Query Match 3.1%; Score 69.4; DB 4; Length 287;  
 Best Local Similarity 53.1%; Pred. No. 2.7e-05;  
 Matches 103; Conservative 0; Mismatches 91; Indels 0; Gaps 0;

Qy 2049 GGCAATAATCACTCGGTTGCTTTCTAGGTCTCAAGTCTCGTGACACATAATCATCC 2108  
 |||||  
 Db 249 GGCCNNCCNATTTTTTTTNNNTNNNTTTTTTTTGGGNTGGGNNNNATTTTTTT 190  
 |||||

Qy 2109 ATCCAATGATGGCTTTTGCTTTTACCACCTCTTCTTATCTTATTAATAAATGTTGG 2168  
 |||||  
 Db 189 TTTTCTTTTCCNAATNTNNNNNGNTTTTTTTTNNNTNNNTTNNCCNNAAAAAGGNTTT 130  
 |||||

Qy 2169 TCTCCACACTGNCCTCCAAAAAATGTTGGTCTCCAAAAAATGTTGGTCTCCAAAAA 2228  
 |||||  
 Db 129 TTTTNCCTTTNGGNAAAAAAATGTTGGTCTCCAAAAAATGTTGGTCTCCAAAAA 70  
 |||||

Qy 2229 AAAAAAAAAAAAAA 2242  
 |||||  
 Db 69 AAAAAAAAAAAAAA 56  
 |||||

RESULT 165  
 ACN84857/C  
 ID ACN84857 standard; DNA; 421 BP.  
 XX  
 AC ACN84857;  
 XX

DT 02-DEC-2004 (first entry)  
 XX  
 DE Breast cancer related marker, seq id 6007.

XX Cancer; breast; tumour; cytostatic; marker; detection; therapy; ds.  
 XX Homo sapiens.

XX US2003099974-A1.  
 XX  
 PN 29-MAY-2003.

PD 18-JUL-2002; 2002US-00198846.  
 XX  
 PF

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PR 18-JUL-2001; 2001US-0306220P.
XX
PA (MILL-) MILLENNIUM PHARM INC.
XX
PI Lillie J, Xu Y, Wang Y, Steinmann K;
XX
DR WPI; 2003-787014/74.
XX
PT Novel isolated polypeptide associated with breast cancer, useful for
PT detecting presence of polypeptide in sample, as a marker for breast
PT cancer.
XX
XX Disclosure; SEQ ID NO 6007; 36pp; English.
XX
XX The invention relates to an isolated polypeptide (I) associated with
XX breast cancer which is encoded by a nucleic acid molecule comprising a
XX nucleotide sequence (S1). Further disclosed is an antibody that binds to
XX the polypeptide of the invention. The activity of the polypeptide of the
XX invention may be described as cytostatic. The antibody is useful for
XX detecting the presence of (I) in a sample. Nucleic acid molecules of the
XX invention are useful in the detection of breast tumours. (I) is useful as
XX a marker for breast cancer and in breast cancer therapy. Sequences given
XX in records ACN78851-ACN92934 represent nucleic acid markers associated
XX with breast cancer. Note: The sequence listing does not form part of the
XX specification but may be obtained in electronic format from the USPTO web
XX site at seqdata.uspto.gov/sequence.html?DocID=2003009974
XX
SQ Sequence 421 BP; 123 A; 51 C; 32 G; 159 T; 0 U; 56 Other;

Query Match 3.1%; Score 69.4; DB 11; Length 421;
Best Local Similarity 53.1%; Pred. No. 3.1e-05;
Matches 103; Conservative 0; Mismatches 91; Indels 0; Gaps 0;

QY 2049 GGCATATCATCTCGGTTGCTTTCTAGTCCTCAAGTCCTGTGACATATCATCTCC 2108
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 310 GGCNNCCNATTTTNTTNTTNTTNTTNTTNTTNTTNTTNTTNTTNTTNTTNTT 251
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 2109 ATCCATGATCGCTTGCTTACCCTCTTCTTATCTATTATTAATAAATGTTGG 2168
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 2169 TCTCCACCCTGCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2228
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 2229 AAAAAAAAAAAAAA 2242
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 130 AAAAAAAAAAAAAA 117

RESULT 166
ACN62215
ID ACN62215 standard; cDNA; 516 BP.
XX
AC ACN62215;
XX
DT 02-DEC-2004 (first entry)
XX
DE Cotton gynoecium tissue EST Clone ID: LIB3829-026-Q6-N6-F3, SEQ:16996.
XX
KW Cotton; plant; EST; expressed sequence tag; transgenic plant; gynoecium;
KW variety Nucleon33B; library LIB3829; molecular tag; gynoecium;
KW genetic mapping; molecular mapping; seed germination; plant growth;
KW plant quality; plant yield; plant breeding; tissue printing; ss.
XX
OS Gossypium hirsutum.
XX
XX US2004123340-A1.
XX
XX 24-JUN-2004.
XX
XX 12-DEC-2001; 2001US-00021323.
XX
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PR 14-DEC-2000; 2000US-0255619P.
XX
PA (DEIK/) DEIKMAN J.
XX (FENG/) FENG P C C.
XX (FING/) FINCHER K L.
XX (ZIEG/) ZIEGLER T E.
XX
PI Deikman J, Feng PCC, Fincher KL, Ziegler TE;
XX
DR WPI; 2004-479808/45.
XX
XX New isolated nucleic acid molecule that encodes a plant protein or its
XX fragment, useful for isolating a variety of agronomically significant
XX genes associated with plant growth, quality or yield, and as molecular
XX tags to map genes.
XX
XX Claim 1; SEQ ID NO 16996; 34pp; English.
XX
XX The invention relates to 17880 cotton expressed sequence tags (ESTs;
XX ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated
XX from primed or non-primed seeds from variety DP50B, mature seeds from
XX variety Coker 312 Boswell 96 Field, and androecium tissue, gynoecium
XX tissue, developing fibres, carpel walls and septa from variety
XX Nucleon33B. The invention also relates to substantially purified
XX proteins or their fragments encoded by nucleic acid molecules of the
XX invention, and to transformed plants having a nucleic acid construct
XX comprising a nucleic acid of the invention. The cotton ESTs are useful as
XX molecular tags to isolate genetic regions, to isolate genes, to map
XX genes, to determine gene function and to determine whether genes are
XX members of a particular gene family. The nucleic acid molecules may be
XX used for isolating a variety of agronomically significant genes
XX associated with plant growth, quality, yield, and could also serve as
XX links in metabolic and catabolic pathways. The nucleic acid molecules are
XX also useful for identifying genes important in initiating and maintaining
XX seed germination or that may be used to mitigate stresses encountered
XX during seed germination. The ESTs additionally enable the acquisition of
XX promoters and cis-regulatory elements which will be useful to express
XX agronomically significant genes in these tissues and/or other tissues,
XX and also permits the acquisition of molecular markers useful in breeding
XX schemes, genetic and molecular mapping, and in cloning of agronomically
XX significant genes. The nucleic acid molecules are further useful for
XX detecting the expression level or pattern of a protein or mRNA and for
XX detecting the presence or quantity of a protein by tissue printing. The
XX present sequence represents a specifically claimed EST isolated from a
XX cotton variety Nucleon33B gynoecium tissue cDNA library (LIB3829). The
XX sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format directly from the US
XX patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340
XX
SQ Sequence 516 BP; 325 A; 23 C; 50 G; 118 T; 0 U; 0 Other;

Query Match 3.1%; Score 69.4; DB 13; Length 516;
Best Local Similarity 73.3%; Pred. No. 3.3e-05;
Matches 88; Conservative 0; Mismatches 32; Indels 0; Gaps 0;

QY 2123 TTGCTTTACCACTCTTCTTCTTATCTATTATTAATAAATGTTGCTCCACTGNC 2182
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 2183 TCCAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 125 ACGAAAAAATAACAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 184

RESULT 167
ACN58977/C
ID ACN58977 standard; cDNA; 563 BP.
XX
AC ACN58977;
XX
XX 02-DEC-2004 (first entry)
XX
XX Cotton gynoecium tissue EST Clone ID: LIB3829-014-Q6-N6-C12, SEQ:13758.
XX
```



XX Cotton; plant; EST; expressed sequence tag; transgenic plant; gynoeceum; 2183 TCCCAA 2242  
 KW variety Nucleon33B; library LIB3829; molecular tag; molecular marker; |||||  
 KW genetic mapping; molecular mapping; seed germination; plant growth; 122 ACCCAA 63  
 KW plant quality; plant yield; plant breeding; tissue printing; ss. |||||

XX Gossypium hirsutum.  
 OS US2004123340-A1.  
 XX 24-JUN-2004.  
 XX 12-DEC-2001; 2001US-00021323.  
 XX 14-DEC-2000; 2000US-0255619P.  
 XX (DEIK/) DEIKMAN J.  
 PA (FENG/) FENG P C C.  
 PA (FINC/) FINCHER K L.  
 PA (ZIEG/) ZIEGLER T E.  
 XX Deikman J, Feng PCC, Fincher KL, Ziegler TE;  
 PI WPI; 2004-479808/45.  
 XX New isolated nucleic acid molecule that encodes a plant protein or its  
 fragment, useful for isolating a variety of agronomically significant  
 genes associated with plant growth, quality or yield, and as molecular  
 tags to map genes.  
 XX Claim 1; SEQ ID NO 13758; 34pp; English.  
 XX The invention relates to 17880 cotton expressed sequence tags (ESTs;  
 CC ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated  
 CC from primed or non-primed seeds from variety DP50B, mature seeds from  
 CC variety Coker 312 Boswell 96 Field, and androecium tissue, gynoeceum  
 CC tissue, developing fibres, carpel walls and septa from variety  
 CC Nucleon33B. The invention also relates to substantially purified  
 CC proteins or their fragments encoded by nucleic acid molecules of the  
 CC invention, and to transformed plants having a nucleic acid construct  
 CC comprising a nucleic acid of the invention. The cotton ESTs are useful as  
 CC molecular tags to isolate genetic regions, to isolate genes, to map  
 CC genes, to determine gene function and to determining whether genes are  
 CC members of a particular gene family. The nucleic acid molecules may be  
 CC used for isolating a variety of agronomically significant genes  
 CC associated with plant growth, quality, yield, and could also serve as  
 CC links in metabolic and catabolic pathways. The nucleic acid molecules are  
 CC also useful for identifying genes important in initiating and maintaining  
 CC seed germination or that may be used to mitigate stresses encountered  
 CC during seed germination. The ESTs additionally enable the acquisition of  
 CC promoters and cis-regulatory elements which will be useful to express  
 CC agronomically significant genes in these tissues and/or other tissues,  
 CC and also permits the acquisition of molecular markers useful in breeding  
 CC schemes, genetic and molecular mapping, and in cloning of agronomically  
 CC significant genes. The nucleic acid molecules are further useful for  
 CC detecting the expression level or pattern of a protein or mRNA and for  
 CC detecting the presence or quantity of a protein by tissue printing. The  
 CC cotton variety Nucleon33B gynoeceum tissue cDNA library (LIB3829). The  
 CC sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from the US  
 CC patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340  
 XX Sequence 563 BP; 207 A; 64 C; 115 G; 177 T; 0 U; 0 Other;

Query Match 3.1%; Score 69.4; DB 13; Length 563;  
 Best Local Similarity 73.3%; Pred. No. 3.4e-05;  
 Matches 88; Conservative 0; Mismatches 32; Indels 0; Gaps 0;

QY 2123 TTTCCTTACACCTCTTCCTTTTATCTTATTAATAAAATGTTGGTCTCCACACTGNC 2182  
 |||||  
 DB 182 TTTTITTTTAAATTTTTCCTTTTTCGAAAAAATAAAAAAAAAAAAAAAAAAAAAA 123

QY 2183 TCCCAA 2242  
 |||||  
 DB 122 ACCCAA 63  
 |||||

RESULT 168  
 ACN56816/C  
 ID ACN56816 standard; CDNA; 543 BP.  
 XX ACN56816;  
 XX 02-DEC-2004 (first entry)  
 DE Cotton gynoeceum tissue EST Clone ID: LIB3829-002-Q1-N6-H10, SEQ:11597.  
 XX Cotton; plant; EST; expressed sequence tag; transgenic plant; gynoeceum;  
 KW variety Nucleon33B; library LIB3829; molecular tag; molecular marker;  
 KW genetic mapping; molecular mapping; seed germination; plant growth;  
 KW plant quality; plant yield; plant breeding; tissue printing; ss.  
 XX Gossypium hirsutum.  
 OS US2004123340-A1.  
 XX 24-JUN-2004.  
 XX 12-DEC-2001; 2001US-00021323.  
 XX 14-DEC-2000; 2000US-0255619P.  
 XX (DEIK/) DEIKMAN J.  
 PA (FENG/) FENG P C C.  
 PA (FINC/) FINCHER K L.  
 PA (ZIEG/) ZIEGLER T E.  
 XX Deikman J, Feng PCC, Fincher KL, Ziegler TE;  
 PI WPI; 2004-479808/45.  
 XX New isolated nucleic acid molecule that encodes a plant protein or its  
 fragment, useful for isolating a variety of agronomically significant  
 genes associated with plant growth, quality or yield, and as molecular  
 tags to map genes.  
 XX Claim 1; SEQ ID NO 11597; 34pp; English.  
 XX The invention relates to 17880 cotton expressed sequence tags (ESTs;  
 CC ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated  
 CC from primed or non-primed seeds from variety DP50B, mature seeds from  
 CC variety Coker 312 Boswell 96 Field, and androecium tissue, gynoeceum  
 CC tissue, developing fibres, carpel walls and septa from variety  
 CC Nucleon33B. The invention also relates to substantially purified  
 CC proteins or their fragments encoded by nucleic acid molecules of the  
 CC invention, and to transformed plants having a nucleic acid construct  
 CC comprising a nucleic acid of the invention. The cotton ESTs are useful as  
 CC molecular tags to isolate genetic regions, to isolate genes, to map  
 CC genes, to determine gene function and to determining whether genes are  
 CC members of a particular gene family. The nucleic acid molecules may be  
 CC used for isolating a variety of agronomically significant genes  
 CC associated with plant growth, quality, yield, and could also serve as  
 CC links in metabolic and catabolic pathways. The nucleic acid molecules are  
 CC also useful for identifying genes important in initiating and maintaining  
 CC seed germination or that may be used to mitigate stresses encountered  
 CC during seed germination. The ESTs additionally enable the acquisition of  
 CC promoters and cis-regulatory elements which will be useful to express  
 CC agronomically significant genes in these tissues and/or other tissues,  
 CC and also permits the acquisition of molecular markers useful in breeding  
 CC schemes, genetic and molecular mapping, and in cloning of agronomically  
 CC significant genes. The nucleic acid molecules are further useful for  
 CC detecting the expression level or pattern of a protein or mRNA and for  
 CC detecting the presence or quantity of a protein by tissue printing. The  
 CC cotton variety Nucleon33B gynoeceum tissue cDNA library (LIB3829). The  
 CC sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from the US  
 CC patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340  
 XX Sequence 563 BP; 207 A; 64 C; 115 G; 177 T; 0 U; 0 Other;





CC corresponding to a marker of the invention and a method of treating a  
CC patient afflicted with ovarian cancer comprising providing to cells of  
CC the patient an antisense oligonucleotide complementary to a marker of the  
CC invention. The markers are useful for assessing if a patient is afflicted  
CC with ovarian cancer, which involves comparing the level of expression of  
CC a marker in a patient sample and a normal level of expression of the  
CC marker in a control non-ovarian cancer sample. A difference between the  
CC expression levels indicates ovarian cancer. The level of expression of a  
CC marker corresponds to a secreted protein or to a transcribed  
CC polynucleotide or its portion. The level of expression of the marker is  
CC assessed by detecting the presence in the sample, a protein or protein  
CC fragment corresponding to the marker. The presence of protein or protein  
CC fragment is detected using an antibody that specifically binds with the  
CC protein or protein fragment. Alternatively, the level of expression of  
CC the marker is assessed by detecting the presence of a transcribed  
CC polynucleotide which anneals with the marker or anneals with a portion of  
CC the polynucleotide comprising the marker, under stringent conditions. The  
CC marker is also used for monitoring the progression of ovarian cancer in a  
CC patient which involves detecting expression of the marker in a patient  
CC sample at a first point in time, repeating the method at a subsequent  
CC time and comparing the level of expression. The method is carried out  
CC using an ovarian tissue sample. A composition comprising a marker,  
CC polypeptide or antibody of the invention is used to treat ovarian cancer.  
CC This sequence represents a human ovarian cancer DNA marker of the  
CC invention. Note: The sequence data for this patent did not form part of  
CC the printed specification, but was obtained in electronic format directly  
CC from WIPO at [ftp.wipo.int/pub/published\\_pct\\_sequences](http://ftp.wipo.int/pub/published_pct_sequences).

XX SQ Sequence 392 BP; 56 A; 34 C; 59 G; 152 T; 0 U; 91 Other;

Query Match 3.1%; Score 68.8; DB 5; Length 392;  
Best Local Similarity 71.2%; Pred. No. 4.1e-05;  
Matches 79; Conservative 0; Mismatches 32; Indels 0; Gaps 0;  
QY 2132 CCACCTCTTCTTTATCTATTATAAAATGTTGCTCCACCACTGCTCCCAAAA 2191  
DB 186 CCNNNTTTTTCNNCTTTTAAANANNTNNCCNCAAAAAA 127  
QY 2192 AAAAAA 2242  
DB 126 AAAAAA 76

RESULT 173

ABK72068  
ID ABK72068 standard; cDNA; 963 BP.

XX AC ABK72068;

XX DT 13-AUG-2002 (first entry)

XX DE Human cDNA encoding ovarian antigen #27.

XX KW Human; ss; ovarian antigen; gene; ovary disorder; breast disorder;  
KW neoplastic disorder; cancer; infectious disease; inflammatory disease;  
KW reproductive system disorder; autoimmune disorder; Alzheimer's disease;  
KW blood-related disorder; hyperproliferative disorder; hair loss;  
KW urinary system disorder; cardiovascular disorder; arrhythmia;  
KW respiratory disorder; musculoskeletal system disorder;  
KW neural activity disorder; neurological disorder; endocrine disorder;  
KW gastrointestinal disorder; liver disorder; pancreatic disorder;  
KW gall bladder disorder; large intestine disorder; developmental disorder;  
KW inherited disorder; wound healing; skin aging; food additive;  
KW preservative.

XX OS Homo sapiens.

XX PN WO200155329-A2.

XX PD 02-AUG-2001.

XX PF 17-JAN-2001; 2001WO-US001360.

XX

PR 31-JAN-2000; 2000US-017906SP.  
PR 04-FEB-2000; 2000US-0180628P.  
PR 07-JUN-2000; 2000US-0209467P.  
PR 14-SEP-2000; 2000US-023398P.  
PR 17-NOV-2000; 2000US-024300P.  
PR 01-DEC-2000; 2000US-0250160P.  
PR 08-DEC-2000; 2000US-0251868P.  
PR 08-DEC-2000; 2000US-0251990P.  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX PI Rosen CA, Barash SC, Ruben SM;  
XX WPI: 2001-476195/51.  
XX P-PSDB; ABG60265.

XX Novel isolated human ovarian related polypeptide useful for  
PT diagnosis/treatment of disorders of ovary and breast such as neoplastic  
PT disorders, infectious diseases, inflammatory diseases, and reproductive  
PT disorders.

XX Claim 1; SEQ ID NO 37; 524pp; English.

XX The invention relates to isolated ovarian related polypeptide (ovarian  
CC antigen) comprising a sequence at least 90% identical to a sequence  
CC selected from a polypeptide fragment, domain, epitope or full length  
CC protein of a sequence (SI) appearing as ABG60239-ABG60296 having  
CC biological activity, or a variant, allelic variant or species homologue  
CC of SI. Also included are the cDNA clones encoding the proteins of SI. SI,  
CC an anti-SI antibody and the cDNA are useful for diagnosing, preventing,  
CC treating or ameliorating a medical condition in mammalian subject  
CC especially diseases and/or disorders of the ovary and/or breast such as  
CC neoplastic disorders (such as ovarian Krukenberg tumour and cancer),  
CC infectious diseases (e.g., mastitis, oophoritis, inflammatory diseases  
CC (e.g., abscesses), reproductive system disorders (Paget's disease),  
CC autoimmune disorders (systemic lupus erythematosus, rheumatoid  
CC arthritis), blood-related disorders (sickle cell anaemia),  
CC hyperproliferative disorders, urinary system disorders  
CC (glomerulonephritis), cardiovascular disorders (arrhythmias), respiratory  
CC disorders, musculoskeletal system disorders, neural activity and  
CC neurological disorders (Alzheimer's disease and Parkinson's disease),  
CC endocrine disorders (Addison's disease), gastrointestinal disorders  
CC (inflammatory disorders), liver disorders (biliary liver cirrhosis),  
CC pancreatic and gall bladder disorders, disorders of the large intestine,  
CC developmental and inherited disorders, diseases at the cellular level,  
CC and wound healing and epithelial cell proliferation. They are also useful  
CC to prevent skin aging, for preventing hair loss, to maintain organs  
CC before transplantation or for supporting cell culture of primary tissues,  
CC to modulate mammalian characteristics such as body height, to modulate  
CC mammalian metabolism, to change a mammal's mental or physical state, and  
CC as food additive or preservative. The present sequence is a cDNA encoding  
CC an SI protein

XX SQ Sequence 963 BP; 277 A; 264 C; 299 G; 123 T; 0 U; 0 Other;

Query Match 3.1%; Score 68.8; DB 5; Length 963;  
Best Local Similarity 78.1%; Pred. No. 5.4e-05;  
Matches 82; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 2138 TTTCCTTTTATCTATTATAAAATGTTGCTCCACCACTGCTCCCAAAAAA 2197  
DB 847 TTTCCTACATAAAGTAATAAAAGTTGTTCTTCGCCACCGTAAAAA 906

QY 2198 AAAAAA 2242

DB 907 AAAAAA 951

RESULT 174

ABK91660

ID ABK91660 standard; cDNA; 963 BP.

XX AC ABK91660;





ADC38712  
 ID ADC38712 standard; cDNA; 1499 BP.  
 XX  
 AC ADC38712;  
 XX  
 DT 18-DEC-2003 (first entry)  
 XX  
 DE Human cDNA encoding a secreted protein #35.  
 XX  
 KW ss; gene; immune disorder; severe combined immunodeficiency; SCID;  
 KW autoimmune disorder; multiple sclerosis; systemic lupus erythematosus;  
 KW rheumatoid arthritis; allergic reaction; asthma; myeloid cell deficiency;  
 KW lymphoid cell deficiency; osteoporosis; osteoarthritis;  
 KW  
 KW peripheral nervous system disease; peripheral neuropathy;  
 KW Alzheimer's disease; Parkinson's disease; coagulation disorder;  
 KW inflammatory disease; systemic inflammatory response syndrome; SIRS;  
 KW ischaemia-reperfusion injury; Crohn's disease; anaphylaxis;  
 KW hypersensitivity; regeneration; neural cell proliferation; fertility;  
 KW tumour; chemokine; human; secreted protein.  
 XX  
 OS Homo sapiens.  
 XX  
 XX US2002193567-A1.  
 XX  
 XX 19-DEC-2002.  
 XX  
 XX 02-APR-2002; 2002US-00114893.  
 XX  
 PR 11-AUG-1995; 95US-00514014.  
 PR 05-APR-1996; 96US-00628364.  
 PR 19-APR-1996; 96US-00635311.  
 PR 07-JUN-1996; 96US-00659224.  
 PR 17-JUN-1996; 96US-00664596.  
 PR 09-JUL-1996; 96US-00677231.  
 PR 26-JUL-1996; 96US-00686878.  
 PR 23-AUG-1996; 96US-00701819.  
 PR 27-SEP-1996; 96US-00721488.  
 PR 27-SEP-1996; 96US-00721798.  
 PR 27-SEP-1996; 96US-00721923.  
 PR 27-SEP-1996; 96US-00721926.  
 PR 25-OCT-1996; 96US-00738367.  
 PR 30-OCT-1996; 96US-00739775.  
 PR 13-JAN-1997; 97US-00783395.  
 PR 10-APR-1997; 97US-00833823.  
 PR 02-JUN-1997; 97US-00867677.  
 PR 05-SEP-1997; 97US-00924838.  
 PR 06-OCT-1999; 99US-00413232.  
 XX  
 PA (GEMY ) GENETICS INST INC.  
 XX  
 XX Jacobs K, McCoy JM, Lavallie ER, Collins-Racie LA, Evans C;  
 PI Merberg D, Treacy M, Bowman MR, Spaulding V, Carlin-Duckett M;  
 PI Kelleher K;  
 XX  
 DR WPI; 2003-657236/62.  
 DR P-PSDB; ADC38713.  
 XX  
 XX Proteins AZ3021 encoded by clone AZ3021 from human adult colon, and  
 PT BD12716 encoded by clone BD12716 from human fetal kidney cDNA library,  
 PT useful for treating e.g. multiple sclerosis and rheumatoid arthritis.  
 XX  
 XX Claim 1; SEQ ID NO 70; 412pp; English.  
 XX  
 CC The invention relates to a protein comprising fully defined AZ302 1  
 CC protein or BD127 1 6 protein. The polynucleotides are useful for  
 CC expressing recombinant proteins for analysis and are also useful as  
 CC chromosome markers or tags to identify chromosomes or to map related gene  
 CC positions. The proteins are useful as amino acid supplement, carbon  
 CC source, nitrogen source and carbohydrate source. The proteins are useful  
 CC for treating various immune deficiencies and disorders (e.g. severe  
 CC combined immunodeficiency (SCID)), autoimmune disorders (e.g. multiple  
 CC sclerosis, systemic lupus erythematosus, rheumatoid arthritis), allergic  
 CC reactions (e.g. asthma), myeloid or lymphoid cell deficiencies,  
 CC  
 CC osteoporosis or osteoarthritis, peripheral nervous system diseases (e.g.  
 CC peripheral neuropathy, Alzheimer's disease, Parkinson's disease),  
 CC coagulation disorders, inflammatory diseases (e.g. systemic inflammatory  
 CC response syndrome (SIRS), ischaemia-reperfusion injury, Crohn's disease),  
 CC anaphylaxis and hypersensitivity. Proteins are also useful for inducing  
 CC tumour immunity, for inducing bone, cartilage, tendon, ligament and/or  
 CC nerve growth or regeneration, for proliferating neural cells and for  
 CC regenerating nerve and brain tissue, for inducing fertility and for  
 CC inhibiting tumour growth. Proteins are also useful as chemokine for  
 CC mammalian cells (e.g., monocytes, fibroblasts, neutrophils), and also  
 CC useful as inhibitors of receptor/ligand interactions. The present  
 CC sequence represents cDNA encoding a human secreted protein.  
 XX  
 SQ Sequence 1499 BP; 526 A; 298 C; 312 G; 363 T; 0 U; 0 Other;  
 Query Match 3.1%; Score 68.8; DB 10; Length 1499;  
 Best Local Similarity 75.2%; Pred. No. 6.2e-05;  
 Matches 85; Conservative 0; Mismatches 28; Indels 0; Gaps 0;  
 QY 2130 TACCACCTCTTTCTTTTATCTTATTAATAAAATGTTGGTCTCCACCACCTGCTCCCAA 2189  
 DB 1367 TTCACTTTAGTTTAAATATATGTAATAAATATTTTGTATTTCTACAAATCTTAAAAA 1426  
 QY 2190 AA 2242  
 DB 1427 AA 1479  
 RESULT 177  
 ABX36078/c  
 ID ABX36078 standard; cDNA; 291 BP.  
 XX  
 AC ABX36078;  
 XX  
 DT 20-FEB-2003 (first entry)  
 XX  
 DE Bovine EST associated with lactation/muscle/fat deposition #1243.  
 KW Bovine; ss; EST; expressed sequence tag; lactation; LMFD;  
 KW muscle deposition; fat deposition; genome mapping; gene identification;  
 KW gene analysis; cattle breeding.  
 XX  
 OS Bos Taurus.  
 XX  
 XX US2002137139-A1.  
 XX  
 PD 26-SEP-2002.  
 XX  
 XX 24-SEP-2001; 2001US-00960352.  
 XX  
 XX 12-JAN-1999; 99US-0115707P.  
 PR 11-JAN-2000; 2000US-00480902.  
 XX  
 XX (BYAT/) BYATT J C.  
 PA (MATH/) MATHIALAGAN N.  
 PA (TAON/) TAO N.  
 PA (WARR/) WARREN W C.  
 XX  
 XX Byatt JC, Mathialagan N, Tao N, Warren WC;  
 PI WPI; 2003-110599/10.  
 DR  
 DR  
 XX  
 XX New nucleic acid associated with lactation, and muscle and fat  
 PT deposition, useful for genome mapping, gene identification and analysis,  
 PT cattle breeding, or for genetically improving cattle.  
 XX  
 PS Claim 2; SEQ ID NO 1243; 245pp; English.  
 XX  
 CC The invention relates to a purified nucleic acid molecule associated with  
 CC lactation or muscle and fat deposition (designated LMFD), derived from  
 CC cattle, and the LMFD nucleic acid can specifically hybridize to a second  
 CC nucleic acid molecule comprising any of 1512 nucleotide sequences,  
 CC appearing as ABX34836-ABX49947, or complements of them. Also included are

CC (1) a transformed cell having a nucleic acid comprising an LMFD nucleic  
CC acid linked to a promoter and a 3' non-translated sequence that  
CC functions in the cell to cause termination of transcription and addition  
CC of polyadenylated ribonucleotides to a 3' end of the mRNA molecule; and  
CC (2) determining a level or pattern of a molecule in a bovine cell or  
CC tissue comprising: (a) incubating a marker nucleic acid (comprising any  
CC of the 15112 nucleic acid sequences or its complement or fragment) with a  
CC complementary nucleic acid molecule obtained from the bovine cell or  
CC tissue, where hybridisation between the marker nucleic acid and the  
CC complementary nucleic acid permits the detection of the molecule; and (b)  
CC detecting the level or pattern of the complementary nucleic acid, where  
CC the detection of the complementary nucleic acid is predictive of the  
CC level or pattern of the molecule. The LMFD nucleic acid is used for  
CC determining a level or pattern of a molecule in a bovine cell or tissue.  
CC It is useful for genome mapping, gene identification and analysis, cattle  
CC breeding, preparation of constructs for use in cattle gene expression, or  
CC for genetically improving cattle. The present sequence is one of the  
CC 15112 bovine LMFD EST (expressed sequence tag) nucleic acids. Note: The  
CC present sequence was not shown in the specification but was obtained in  
CC electronic format from the USPTO web site:  
CC seqdata.uspto.gov/sequence.html?docID=20020137139  
XX  
SQ Sequence 291 BP; 54 A; 20 C; 39 G; 178 T; 0 U; 0 Other;

Query Match 3.1%; Score 68.6; DB 8; Length 291;  
Best Local Similarity 80.0%; Pred. No. 4.1e-05;  
Matches 80; Conservative 0; Mismatches 20; Indels 0; Gaps 0;  
QY 2143 TTTTATCTTATTAATAAATGTTGGTCTCCACACTGNCCTCCAAAAA 2242  
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
QY 2203 AA 2242  
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
152 AA 113

RESULT 178  
ADK61481/C  
ID ADK61481 standard; DNA; 380 BP.  
XX AC ADK61481;  
XX  
DT 06-MAY-2004 (first entry)  
XX  
DE Ovarian cancer-related DNA #636 with altered ovarian cancer expression.  
XX  
KW ds; gene; ovarian tumor; BRCA-1-like; BRCA-2-like; non-BRCA-like;  
KW Gene expression; primer; cancer.  
XX  
OS Homo sapiens.  
XX  
PN WO2003068054-A2.  
XX  
PD 21-AUG-2003.  
XX  
PF 13-FEB-2003; 2003WO-US004688.  
XX  
PR 13-FEB-2002; 2002US-0357031P.  
XX  
XX (USSH ) US DEPT HEALTH & HUMAN SERVICES.  
PA (SLOK ) SLOAN KETTERING INST CANCER RES.  
XX  
PI Jazaeri AA, Boyd J, Liu ET;  
XX  
XX WPI; 2003-689589/65.  
DR  
XX  
XX Classifying an ovarian tumor as a BRCA-1-like or BRCA-2-like or non-BRCA-  
PT like tumor by determining a pattern of expression in the ovarian tumor of  
PT several markers.  
XX  
XX Disclosure; SEQ ID NO 651; 137pp; English.

CC The invention relates to a method of classifying an ovarian tumor as a  
CC BRCA-1-like or BRCA-2-like or non-BRCA-like tumor by: (1) determining a  
CC pattern of expression in the ovarian tumor of several markers given in  
CC the specification; and (2) comparing a similarity of the pattern of  
CC expression of the markers in the ovarian tumor to a pattern of expression  
CC of the markers in a comparison tissue of a known BRCA-1-like or BRCA-2-  
CC like or non-BRCA-like tumor. The method is useful for classifying an  
CC ovarian tumor as a BRCA-1-like or BRCA-2-like or non-BRCA-like tumor.  
CC This sequence corresponds to an ovarian cancer-related gene having an  
CC altered pattern of expression in ovarian cancer. (Note: The sequence data  
CC for this patent did not form part of the printed specification but was  
CC obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences).  
XX  
SQ Sequence 380 BP; 137 A; 81 C; 74 G; 88 T; 0 U; 0 Other;  
Query Match 3.1%; Score 68.6; DB 10; Length 380;  
Best Local Similarity 71.8%; Pred. No. 4.5e-05;  
Matches 89; Conservative 0; Mismatches 35; Indels 0; Gaps 0;  
QY 2119 CGCCTTTGCTTTACCACTCTTCTCTTATCTTATTAATAAATAAATGTTGGTCTCCACCAC 2178  
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
142 CCCTTTTGGTTCTCTTTTCTTTTGGGGTCTTTATTTCCCTGGTTTGGGGGGGCC 83  
QY 2179 TGNCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2238  
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
82 CGGGTCCCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 23  
QY 2239 AAAA 2242  
Db |||||  
22 AAAA 19  
RESULT 179  
AAI87378  
ID AAI87378 standard; cDNA; 411 BP.  
XX AC AAI87378;  
XX  
DT 06-NOV-2001 (first entry)  
XX  
DE Human polynucleotide SEQ ID NO 7438.  
XX  
KW Human; cytokine; cell proliferation; cell differentiation; gene therapy;  
KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;  
KW tissue growth factor; immunomodulatory; cancer; leukaemia;  
KW nervous system disorders; arthritis; inflammation; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200164835-A2.  
XX  
PD 07-SEP-2001.  
XX  
PF 26-FEB-2001; 2001WO-US004927.  
XX  
PR 28-FEB-2000; 2000US-00515126.  
PR 18-MAY-2000; 2000US-00577409.  
XX  
XX (HYSE-) HYSEQ INC.  
PA  
PI Tang YT, Liu C, Drmanac RT;  
XX  
XX WPI; 2001-514838/56.  
DR P-PSDB; AAO07447.  
DR  
XX  
XX Isolated nucleic acids and polypeptides, useful for preventing diagnosing  
PT and treating e.g. leukemia, inflammation and immune disorders.  
PT  
XX  
XX Claim 1; SEQ ID NO 7438; 139pp + Sequence Listing; English.  
XX  
XX The invention relates to human polynucleotides (AAI79941-AAI93841) and  
CC the encoded proteins (AAO00010-AAO13910) that exhibit activity elating to



CC cytokine, cell proliferation or cell differentiation or which may induce  
 CC production of other cytokines in other cell populations. The  
 CC polynucleotides and polypeptides are useful in gene therapy, vaccines or  
 CC peptide therapy. The polypeptides have various cytokine-like activities,  
 CC e.g. stem cell growth factor activity, haematopoiesis regulating  
 CC activity, tissue growth factor activity, immunomodulatory activity and  
 CC activin/inhibin activity and may be useful in the diagnosis and/or  
 CC treatment of cancer, leukaemia, nervous system disorders, arthritis and  
 CC inflammation. Note: The sequence data for this patent did not form part  
 CC of the printed specification, but was obtained in electronic format  
 CC directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 XX Sequence 411 BP; 171 A; 88 C; 82 G; 69 T; 0 U; 1 Other;

Query Match 3.1%; Score 68.6; DB 4; Length 411;  
 Best Local Similarity 71.2%; Pred. No. 4.6e-05;  
 Matches 89; Conservative 0; Mismatches 36; Indels 0; Gaps 0;  
 Qy 2118 TCGCCTTGCTTACCACTCTTTCTTTTATCTTATTATAAATAATGTGTCACCA 2177  
 Db 53 TCACCCCTAGCATTACTTATATGACATGCTCCATACCCATTACATCTCCAGCATTCGCC 112  
 Qy 2178 CTGCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2237  
 Db 113 CTANACCTAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 172  
 Qy 2238 AAAAA 2242  
 Db 173 AAAAA 177

RESULT 180  
 ADL43533/c  
 ID ADL43533 standard; DNA; 492 BP.  
 XX  
 AC ADL43533;  
 XX  
 XX 20-MAY-2004 (first entry)  
 XX Human ovarian cancer DNA marker #17423.  
 XX Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.  
 XX Homo sapiens.  
 XX WO200170979-A2.  
 XX 27-SEP-2001.  
 XX 21-MAR-2001; 2001WO-US009126.  
 XX 21-MAR-2000; 2000US-0191031P.  
 XX 25-MAY-2000; 2000US-02071124P.  
 XX 15-JUN-2000; 2000US-0211940P.  
 XX 07-JUL-2000; 2000US-0216820P.  
 XX 25-JUL-2000; 2000US-0220661P.  
 XX 21-DEC-2000; 2000US-0257672P.  
 XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.  
 XX Lee J, Lillie J;  
 XX WPI; 2001-611502/70.  
 XX Novel isolated nucleic acid molecules (markers) overexpressed in ovarian  
 XX cancer cells as compared to their normal non-cancerous ovarian cells are  
 XX used to characterize stage, grade, histological type of ovarian cancer.  
 XX Disclosure; SEQ ID NO 17423; 106pp; English.  
 XX The invention relates to nucleic acid markers which are overexpressed in  
 XX ovarian cancer cells as compared to their expression in normal (i.e. non-  
 XX cancerous) ovarian cells. The invention also relates to polypeptides

CC encoded by the markers, antibodies that selectively bind to the  
 CC polypeptides, a method of inhibiting ovarian cancer in a patient at risk  
 CC of developing ovarian cancer involving inhibiting expression of a gene  
 CC corresponding to a marker of the invention and a method of treating a  
 CC patient afflicted with ovarian cancer comprising providing to cells of  
 CC the patient an antisense oligonucleotide complementary to a marker of the  
 CC invention. The markers are useful for assessing if a patient is afflicted  
 CC with ovarian cancer, which involves comparing the level of expression of  
 CC a marker in a patient sample and a normal level of expression of the  
 CC marker in a control non-ovarian cancer sample. A difference between the  
 CC expression levels indicates ovarian cancer. The level of expression of a  
 CC marker corresponds to a secreted protein or to a transcribed  
 CC polynucleotide or its portion. The level of expression of the marker is  
 CC assessed by detecting the presence in the sample, a protein or protein  
 CC fragment corresponding to the marker. The presence of protein or protein  
 CC fragment is detected using an antibody that specifically binds with the  
 CC protein or protein fragment. Alternatively, the level of expression of  
 CC the marker is assessed by detecting the presence of a transcribed  
 CC polynucleotide which anneals with the marker or anneals with a portion of  
 CC the polynucleotide comprising the marker, under stringent conditions. The  
 CC marker is also used for monitoring the progression of ovarian cancer in a  
 CC patient which involves detecting expression of the marker in a patient  
 CC sample at a first point in time, repeating the method at a subsequent  
 CC time and comparing the level of expression. The method is carried out  
 CC using an ovarian tissue sample. A composition comprising a marker,  
 CC polypeptide or antibody of the invention is used to treat ovarian cancer.  
 CC This sequence represents a human ovarian cancer DNA marker of the  
 CC invention. Note: The sequence data for this patent did not form part of  
 CC the printed specification, but was obtained in electronic format directly  
 CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.  
 XX  
 XX Sequence 492 BP; 134 A; 68 C; 123 G; 167 T; 0 U; 0 Other;

Query Match 3.1%; Score 68.6; DB 5; Length 492;  
 Best Local Similarity 74.1%; Pred. No. 4.9e-05;  
 Matches 86; Conservative 0; Mismatches 30; Indels 0; Gaps 0;  
 Qy 2127 CTTTACCACCTCTTCCCTTTTATCTTATTATAAATAATGTGTCACCACTGCTCC 2186  
 Db 254 CTTGCGCGTTTTTTTTTTTTTTTTTTTCAAAAAAATAATGGTTTTTTTTTTTTC 195  
 Qy 2187 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAA 2242  
 Db 194 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAA 139

RESULT 181  
 ACN61307/c  
 ID ACN61307 standard; cDNA; 529 BP.  
 XX  
 AC ACN61307;  
 XX  
 XX 02-DEC-2004 (first entry)  
 XX Cotton gynoecium tissue EST Clone ID: LIB3829-036-Q1-N6-A9, SEQ:16088.  
 XX Cotton; plant; EST; expressed sequence tag; transgenic plant; gynoecium;  
 XX variety Nucotton33B; library LIB3829; molecular tag; molecular marker;  
 XX genetic mapping; molecular mapping; seed germination; plant growth;  
 XX plant quality; plant yield; plant breeding; tissue printing; ss.  
 XX Gossypium hirsutum.  
 XX US2004123340-A1.  
 XX 24-JUN-2004.  
 XX 12-DEC-2001; 2001US-00021323.  
 XX 14-DEC-2000; 2000US-0255619P.  
 XX (DEIK/) DEIKWAN J.  
 XX (FENG/) FENG P C C.

```
PA (FINC/) FINCHER K L.
PA (ZIEG/) ZIEGLER T E.
XX
PI Deikman J, Feng PCC, Fincher KL, Ziegler TE;
XX
DR WPI; 2004-479808/45.
XX
XX
XX
XX New isolated nucleic acid molecule that encodes a plant protein or its
PT fragment, useful for isolating a variety of agronomically significant
PT genes associated with plant growth, quality or yield, and as molecular
PT tags to map genes.
XX
XX Claim 1; SEQ ID NO 16088; 34pp; English.
XX
XX The invention relates to 17880 cotton expressed sequence tags (ESTs;
CC ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated
CC from primed or non-primed seeds from variety DP50B, mature seeds from
CC variety Coker 312 Boswell 96 Field, and androecium tissue, gynoecium
CC tissue, developing fibres, carpel walls and septa from variety
CC Nucleon33B. The invention also relates to substantially purified
CC proteins or their fragments encoded by nucleic acid molecules of the
CC invention, and to transformed plants having a nucleic acid construct
CC comprising a nucleic acid of the invention. The cotton ESTs are useful as
CC molecular tags to isolate genetic regions, to isolate genes, to map
CC genes, to determine gene function and to determining whether genes are
CC members of a particular gene family. The nucleic acid molecules may be
CC used for isolating a variety of agronomically significant genes
CC associated with plant growth, quality, yield, and could also serve as
CC links in metabolic and catabolic pathways. The nucleic acid molecules are
CC also useful for identifying genes important in initiating and maintaining
CC seed germination or that may be used to mitigate stresses encountered
CC during seed germination. The ESTs additionally enable the acquisition of
CC promoters and cis-regulatory elements which will be useful to express
CC agronomically significant genes in these tissues and/or other tissues,
CC and also permits the acquisition of molecular markers useful in breeding
CC schemes, genetic and molecular mapping, and in cloning of agronomically
CC significant genes. The nucleic acid molecules are further useful for
CC detecting the expression level or pattern of a protein or mRNA and for
CC detecting the presence or quantity of a protein by tissue printing. The
CC present sequence represents a specifically claimed EST isolated from a
CC cotton variety Nucleon33B gynoecium tissue cDNA library (L1B3829). The
CC sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from the US
CC patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340
XX
XX Sequence 529 BP; 310 A; 28 C; 99 G; 92 T; 0 U; 0 Other;
XX
XX Query Match 3.1%; Score 68.6; DB 13; Length 529;
XX Best Local Similarity 61.1%; Pred. No. 5e-05;
XX Matches 110; Conservative 0; Mismatches 70; Indels 0; Gaps 0;
XX
XX 2063 GGTTCGCTTCTAGGTCCTCAAGTCGTCGACACATATCATTCATCCATCATGATCGCC 2122
XX
XX 182 GTTTTGGTTTTTTTATCTCTTTTTTTCTTTTCCCTTTTCCCTGTTTCTTTTTTTT 123
XX
XX 2123 TTTCGCTTTACCACTCTTCTTTATCTTATTAATAAATGTTGCTCCCACTGNC 2182
XX
XX 122 TTTTITTTTTTCTAAATTTTTTTTTTATTTATTAATAACAATTAACAATAAATTTTTT 63
XX
XX 2183 TCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2242
XX
XX 62 CATAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 3
XX
XX
XX RESULT 182
XX AAH70075/c
XX ID AAH70075 standard; cDNA; 550 BP.
XX
XX AC AAH70075;
XX
XX 19-SEP-2001 (first entry)
XX
XX Human cervical cancer marker nucleic acid 1349.
XX
```

```
XX
XX Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.
XX
XX Homo sapiens.
XX
XX WO200142467-A2.
XX
XX 14-JUN-2001.
XX
XX 08-DEC-2000; 2000WO-US033312.
XX
XX 08-DEC-1999; 99US-0169681P.
XX
XX 21-DEC-1999; 99US-0171350P.
XX
XX 14-MAR-2000; 2000US-0189315P.
XX
XX 12-MAY-2000; 2000US-0203791P.
XX
XX 09-JUN-2000; 2000US-0210600P.
XX
XX 21-JUL-2000; 2000US-0220114P.
XX
XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
XX Schlegel R, Deeds J, Berger A, Zhao X;
XX
XX WPI; 2001-375006/39.
XX
XX New isolated nucleic acid for diagnosing and treating cervical cancer and
PT for assessing and detecting compounds for treating the cancer.
XX
XX Claim 1; Page 313; 1051pp; English.
XX
XX The invention relates to novel genes (AAH68727-AAH73383) associated with
CC cervical cancer with cytostatic activity. The nucleic acids and encoded
CC polypeptides are useful: to assess if a patient is afflicted with
CC cervical cancer or has a pre-malignant condition; to monitor the
CC progression of cervical cancer or a premalignant condition in a patient;
CC and to select and/or assess the efficacy of a compound or therapy for
CC inhibiting cervical cancer in a patient. The nucleic acids may also be
XX useful for gene therapy
XX
XX Sequence 550 BP; 133 A; 41 C; 73 G; 197 T; 0 U; 106 Other;
XX
XX Query Match 3.1%; Score 68.6; DB 4; Length 550;
XX Best Local Similarity 62.3%; Pred. No. 5e-05;
XX Matches 86; Conservative 0; Mismatches 52; Indels 0; Gaps 0;
XX
XX 2105 TTCCATCCCAATGATCGCTTTCCTTTTACCACTCTTTCTTTTATCTTATTAATAAATG 2164
XX
XX 200 TNCCTAAANNTAAANNTTTNNNANTTNANCCCNITCCCNITGGGGGNAANAANAANT 141
XX
XX 2165 TTGGTCTCCCACTGNCCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2224
XX
XX 140 TNNTTTANCCNTTTTNTNAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 81
XX
XX 2225 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2242
XX
XX 80 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 63
XX
XX
XX RESULT 183
XX AAF94825/c
XX ID AAF94825 standard; cDNA; 396 BP.
XX
XX AC AAF94825;
XX
XX 23-MAY-2001 (first entry)
XX
XX Human ovarian cancer associated coding sequence SEQ ID NO: 16.
XX
XX Human, ovarian cancer; vaccine; gene therapy; carcinoma; ss.
XX
XX Homo sapiens.
XX
XX WO200118046-A2.
XX
```

PD 15-MAR-2001.  
XX 08-SEP-2000; 2000WO-US024827.  
XX 10-SEP-1999; 99US-00394374.  
PR 01-MAY-2000; 2000US-00561778.  
PR 15-AUG-2000; 2000US-00640173.  
PR 07-SEP-2000; 2000US-00656668.  
XX (CORI-) CORIXA CORP.  
XX Xu J, Stolk JA;  
PI WPI; 2001-211395/21.  
XX Isolated polypeptides associated with ovarian carcinomas, and the nucleic acids that encode them, useful for the prevention diagnosis and treatment of ovarian cancers.  
XX Claim 5; Page 121; 189pp; English.  
XX The present invention provides a number of coding sequences and proteins, the over-expression of which is associated with ovarian carcinoma/cancer. These can be used in the diagnosis, treatment and prevention of ovarian cancer, optionally by gene therapy or in the form of a vaccine. The present sequence is an example of one of these sequences  
XX Sequence 396 BP; 69 A; 53 C; 56 G; 136 T; 0 U; 82 Other;  
SQ  
Query Match 3.1%; Score 68.4; DB 4; Length 396;  
Best Local Similarity 63.6%; Pred. No. 5e-05;  
Matches 84; Conservative 0; Mismatches 48; Indels 0; Gaps 0;  
Qy 2111 CCAATGATCGCTTGGCTTTACCACTCTTCCCTTTATCTTATTAATAAAATCTTGTC 2170  
Db 179 CCNANNCCCCCTNTNTTTTTTTTNCNNNNNTNTNANAAAAAATTTNNNC 120  
Qy 2171 TCACCACTGCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2230  
Db 119 CCCCCAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 60  
Qy 2231 AAAAAAATAAAAA 2242  
Db 59 AAAAAAATAAAAA 48  
RESULT 184  
ABL48775/C  
ID ABL48775 standard; cDNA; 396 BP.  
XX ABL48775;  
XX 18-JUN-2002 (first entry)  
XX Ovarian carcinoma sequence isolate 23660.1.  
XX Ovarian cancer; cancer therapy; vaccine; gene therapy; tumour; cancer;  
XX 66.  
XX Homo sapiens.  
XX US2002004491-A1.  
XX 10-JAN-2002.  
XX 03-APR-2001; 2001US-00825294.  
XX 10-SEP-1999; 99US-00394374.  
PR 01-MAY-2000; 2000US-00561778.  
PR 15-AUG-2000; 2000US-00640173.  
PR 07-SEP-2000; 2000US-00656668.  
PR 14-NOV-2000; 2000US-00713550.  
XX

PA (XUJJ/) XU J.  
PA (STOL/) STOLK J A.  
PA (ALGA/) ALGATE P A.  
PA (FLIN/) FLING S P.  
XX Xu J, Stolk JA, Algate PA, Fling SP;  
XX WPI; 2002-171027/22.  
DR Ovarian tumor polypeptide and polynucleotide useful in diagnosis, prevention and/or treatment of cancer, especially ovarian cancer.  
XX Claim 1a; Page 44; 131pp; English.  
XX The invention relates to ovarian tumour polynucleotides and polypeptides that may be utilised in cancer therapy, for example in a vaccine or gene therapy. Polypeptides and polynucleotides of the invention are useful for detecting a cancer in a patient, for stimulating and/or expanding T-cells specific for a tumour protein, and for inhibiting the development of a cancer in a patient. They are also useful for stimulating an immune response in a patient, and for treating a cancer in a patient and for determining the presence of a cancer in a patient. The isolated polynucleotides of the invention are useful for their ability to selectively form duplex molecules with complementary stretches of the entire desired gene or gene fragments, and for designing and preparing ribozyme molecules for inhibiting expression of tumour polypeptides in tumour cells. Polypeptides and polynucleotides of the invention are also useful in recombinant DNA molecules to direct expression of a polypeptide in appropriate host cells. The sequences given in records ABL48760-CC ABL48956 represent polynucleotides encoding ovarian carcinoma proteins  
XX Sequence 396 BP; 69 A; 53 C; 56 G; 136 T; 0 U; 82 Other;  
SQ  
Query Match 3.1%; Score 68.4; DB 6; Length 396;  
Best Local Similarity 63.6%; Pred. No. 5e-05;  
Matches 84; Conservative 0; Mismatches 48; Indels 0; Gaps 0;  
Qy 2111 CCAATGATCGCTTGGCTTTACCACTCTTCCCTTTATCTTATTAATAAAATCTTGTC 2170  
Db 179 CCNANNCCCCCTNTNTTTTTTTTNCNNNNNTNTNANAAAAAATTTNNNC 120  
Qy 2171 TCACCACTGCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2230  
Db 119 CCCCCAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 60  
Qy 2231 AAAAAAATAAAAA 2242  
Db 59 AAAAAAATAAAAA 48  
RESULT 185  
ABT03092/C  
ID ABT03092 standard; cDNA; 396 BP.  
XX ABT03092;  
XX 05-SEP-2002 (first entry)  
XX Human ovarian carcinoma associated coding sequence SEQ ID NO: 16.  
XX Human; ovarian cancer; ovarian carcinoma; gene therapy; immunotherapy;  
XX cytostatic; gene; ss.  
XX Homo sapiens.  
XX WO200239885-A2.  
XX 23-MAY-2002.  
XX 13-NOV-2001; 2001WO-US045395.  
XX 14-NOV-2000; 2000US-00713550.  
PR 03-APR-2001; 2001US-00825294.  
PR



```
PI Fanger GR, Fling SP;
XX WPI; 2004-178717/17.
XX
XX Novel isolated ovarian tumor polynucleotide encoding ovarian tumor
PT polypeptide, useful as probes of primers for detecting presence of cancer
PT in a patient.
XX
XX Example 1; SEQ ID NO 16; 222pp; English.
XX
XX This invention relates to novel isolated polynucleotides and methods for
CC the therapy and diagnosis of cancer, particularly ovarian cancer.
CC Specifically, it refers to these polynucleotides and the encoded
CC polypeptides thereof, as well as immunogenic peptides, antibodies,
CC antigen presenting cells (APCs) and immune system cells (e.g. T cells)
CC that are targeted to those cells expressing the proteins of interest. The
CC present invention describes methods that are useful for stimulating and/
CC or expanding T cells specific for a tumorigenic protein (i.e. T cell
CC treatment) and/or prevention of ovarian cancer by stimulating an immune
CC response in a patient. Accordingly, these compositions exhibit cytostatic
CC activity. This polynucleotide sequence is a representative human ovarian
CC carcinoma cDNA sequence of the invention.
XX
XX Sequence 396 BP; 69 A; 53 C; 56 G; 136 T; 0 U; 82 Other;
SQ
Query Match 3.1%; Score 68.4; DB 12; Length 396;
Best Local Similarity 63.6%; Pred. No. 5e-05;
Matches 84; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
Qy 2111 CCAATGATCGCTTGGCTTTACCACTCTTCTTTTATCTTATTAATAAAATGTTGTC 2170
Db 179 CCNANNCCCTTNTTTTTTTTCCNNNNNTNTNAAAAAANTTTNNNC 120
Qy 2171 TCACCACTGCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2230
Db 119 CCCCNAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 60
Qy 2231 AAAAAAATAAAAA 2242
Db 59 AAAAAAATAAAAA 48
RESULT 188
ADM43276/C
ID ADM43276 standard; cDNA; 396 BP.
XX
XX ADM43276;
AC
XX
XX 03-JUN-2004 (first entry)
XX
XX Human ovarian carcinoma cDNA #16.
XX
XX ss; human; cancer; ovarian cancer; ovarian carcinoma.
XX
XX Homo sapiens.
XX
XX US2003129192-A1.
XX
XX 10-JUL-2003.
XX
XX 02-AUG-2002; 2002US-00212677.
XX
XX 10-SEP-1999; 99US-00394374.
XX
XX 01-MAY-2000; 2000US-003561778.
XX
XX 15-AUG-2000; 2000US-00640173.
XX
XX 07-SEP-2000; 2000US-00656668.
XX
XX 14-NOV-2000; 2000US-00713550.
XX
XX 03-APR-2001; 2001US-00825294.
XX
XX 02-OCT-2001; 2001US-00970966.
XX
XX (CORI-) CORIXA CORP.
XX
PI Chenault RA, Xu J, Fanger GR, Harlocker SL, Mcneill PD;
XX WPI; 2004-051070/05.
XX
XX New isolated polynucleotide encoding an ovarian tumor protein for use in
PT diagnosing, preventing or treating cancer, particularly ovarian cancer.
PT
XX Claim 1; SEQ ID NO 16; 220pp; English.
XX
XX The invention relates to an isolated polynucleotide. The invention is
CC used to diagnose, prevent or treat cancer, particularly ovarian cancer.
CC The present sequence represents a human ovarian carcinoma cDNA.
XX
XX Sequence 396 BP; 69 A; 53 C; 56 G; 136 T; 0 U; 82 Other;
SQ
Query Match 3.1%; Score 68.4; DB 12; Length 396;
Best Local Similarity 63.6%; Pred. No. 5e-05;
Matches 84; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
Qy 2111 CCAATGATCGCTTGGCTTTACCACTCTTCTTTTATCTTATTAATAAAATGTTGTC 2170
Db 179 CCNANNCCCTTNTTTTTTTTCCNNNNNTNTNAAAAAANTTTNNNC 120
Qy 2171 TCACCACTGCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2230
Db 119 CCCCNAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 60
Qy 2231 AAAAAAATAAAAA 2242
Db 59 AAAAAAATAAAAA 48
RESULT 189
ADI72227/C
ID ADI72227 standard; DNA; 647 BP.
XX
XX ADI72227;
AC
XX
XX 20-MAY-2004 (first entry)
XX
XX Human ovarian cancer DNA marker #4969.
XX
XX Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.
XX
XX Homo sapiens.
XX
XX WO200170979-A2.
XX
XX 27-SEP-2001.
XX
XX 21-MAR-2001; 2001WO-US009126.
XX
XX 21-MAR-2000; 2000US-0191031P.
XX
XX 25-MAY-2000; 2000US-0207124P.
XX
XX 15-JUN-2000; 2000US-0211940P.
XX
XX 07-JUL-2000; 2000US-0216820P.
XX
XX 25-JUL-2000; 2000US-0220661P.
XX
XX 21-DEC-2000; 2000US-0257672P.
XX
XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
XX Lee J, Lillie J;
XX
XX WPI; 2001-611502/70.
XX
XX Novel isolated nucleic acid molecules (markers) overexpressed in ovarian
PT cancer cells as compared to their normal non-cancerous ovarian cells are
PT used to characterize stage, grade, histological type of ovarian cancer.
XX
XX Disclosure; SEQ ID NO 4969; 106pp; English.
XX
XX The invention relates to nucleic acid markers which are overexpressed in
CC ovarian cancer cells as compared to their expression in normal (i.e. non-
```



91 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 57

Db

## RESULT 191

AAV01527 standard; cDNA to mRNA; 2239 BP.

XX AC AAV01527;

XX XX 27-AUG-2003 (revised)

XX DT 21-MAY-1998 (first entry)

XX DE Wheat soluble starch synthase partial cDNA sequence.

XX KW Starch synthase; wheat; transgenic plant; ss.

XX XX Triticum aestivum.

XX FH Key Location/Qualifiers

XX FT CDS 3..2018

XX FT /\*tag= a

XX XX WO9745545-A1.

XX XX 04-DEC-1997.

XX XX 28-MAY-1997; 97WO-EP002793.

XX XX 29-MAY-1996; 96DE-01021588.

XX PR 11-SEP-1996; 96DE-01036917.

XX XX (AGRE ) HOECHST-SCHERING AGREVO GMBH.

XX PI Block M, Loerz H, Luetticke S, Walter L, Froberg C, Kossmann J;  
XX DR WPI; 1998-032652/03.  
XX DR P-PSDB; AAW23937.

XX PT Nucleic acid encoding starch synthase enzymes from wheat - for transgenic  
XX PT plants that produce modified forms of starch, useful e.g. in foods, or  
XX PT for production of packaging materials and disposable goods.

XX PS Claim 1; Page 47-51; 71pp; English.

XX CC This near full-length cDNA clone, designated TaSSS, codes for a soluble  
XX CC starch synthase (see AAW23837) of summer wheat (cv. Florida). It was  
XX CC isolated from a phage cDNA library of 21-day-old wheat caryopses by  
XX CC screening with a PCR fragment derived from rice soluble starch synthase  
XX CC (see also AAV01529-30). A second clone (see AAV01528), coding for wheat  
XX CC granule-bound starch synthase (see AAW23938) is also claimed. These  
XX CC isolated nucleic acids can be inserted into vectors for production of  
XX CC transgenic plants, particularly starch-producing plants, specifically  
XX CC wheat. Use of the isolated nucleic acids, or of antisense sequences,  
XX CC allows starch metabolism to be regulated in transgenic plants.  
XX CC Overexpression may result in improved crop yield, while modification of  
XX CC starch in planta may eliminate the need for subsequent chemical/physical  
XX CC modification. Plants with altered levels of the various isoforms of  
XX CC starch synthase will produce starch of different chain length,  
XX CC amylose/amylopectin ratio, degree of branching, phosphate content,  
XX CC gelatinisation behaviour, granule size and shape, viscosity etc. The  
XX CC starch produced by such plants is useful particularly in foods or to  
XX CC produce packaging materials or disposable goods, as well as in any other  
XX CC known use of starch. (Updated on 27-AUG-2003 to correct OS field.)

XX SQ Sequence 2239 BP; 611 A; 448 C; 590 G; 590 T; 0 U; 0 Other;

Query Match 3.1%; Score 68.4; DB 2; Length 2239;

Best Local Similarity 78.6%; Pred. No. 8.6e-05;

Matches 81; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

Qy 2140 TCCTTTTATCTATTATAAATGTGGCTCCACCACTGCTCCCAAAAAAAAAAAAAA 2199

Db 2110 TGCTGTTTTTTTTTAAATCAAAAGAGGGGGTTCTCCGATTTCATTAAAAA 2169

Qy 2200 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242

Db 2170 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2212

## RESULT 192

AAZ24487

XX ID AAZ24487 standard; DNA; 2805 BP.

XX AC AAZ24487;

XX XX 18-FEB-2000 (first entry)

XX DT Wheat soluble starch synthase DNA.

XX DE Soluble; starch synthase; wheat; transgenic plant; starch production;  
XX KW food; baking; pastry; packaging material; glucose; glucan; paper; pulp;  
XX KW adhesive; textile; building material; soil stabilizer; wetting agent;  
XX KW fertilizer; plant-protection; cosmetic; flocculant; ss.

XX OS Triticum aestivum.

XX XX Key Location/Qualifiers

XX FT CDS 314..2584

XX FT /\*tag= a

XX FT /product= "soluble starch synthase"

XX XX DEL9820607-A1.

XX XX 11-NOV-1999.

XX XX 08-MAY-1998; 98DE-01020607.

XX XX 08-MAY-1998; 98DE-01020607.

XX XX (AGRE ) HOECHST-SCHERING AGREVO GMBH.

XX XX Loerz H, Luetticke S, Block M;

XX DR WPI; 2000-024508/03.

XX DR P-PSDB; AAY50818.

XX PT New enzyme with starch synthase activity, useful for producing starch for  
XX PT foods and packaging materials.

XX PS Claim 1b; Page 15-19; 24pp; German.

XX CC This invention describes a novel protein (I) with the activity of wheat  
XX CC starch synthase. Transgenic plants, specifically wheat, that contain (I)  
XX CC are used for production of starch, used particularly in foods,  
XX CC particularly baked and pastry goods and for making packaging materials or  
XX CC disposable items. Starch may also be used as starting materials for  
XX CC glucose or glucan components (e.g. for fermentation or further chemical  
XX CC conversion); in paper and pulp production, as adhesives, in textiles, in  
XX CC preparation of gypsum-based building materials, as soil stabilizer, as  
XX CC wetting agent etc. in fertilizer and plant-protection compositions, as  
XX CC binder (in pharmaceuticals, cosmetics, coal briquetting and casting  
XX CC sand), as flocculant in soil or coal slurries, as rubber and leather  
XX CC additives, and for production of synthetic polymers, e.g. polyurethane  
XX CC films. Transgenic plants with increased/decreased production of (I)  
XX CC produce starches with altered physical and/or chemical properties such as  
XX CC amylose/amylopectin ratios, degree of branching, mean chain length,  
XX CC phosphate content, gelatinization properties, gel- or film-forming  
XX CC properties, or starch grain size or structure. This sequence encodes the  
XX CC soluble starch synthase isolated from wheat (Triticum aestivum L. cv.  
XX CC Florida)

XX SQ Sequence 2805 BP; 683 A; 703 C; 763 G; 656 T; 0 U; 0 Other;

Query Match 3.1%; Score 68.4; DB 3; Length 2805;

Best Local Similarity 78.6%; Pred. No. 9.3e-05;

Matches 81; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 2140 TCCTTTTATCTTATTAATAAATGTTGGTCTCCACCATGCTCCCAAAAAAAAAA 2199  
 Db 2676 TGTGTTTTTTTTTAAATCAAAAGAGGGGTTTCTCCGATTTTCATTAATAAAAAAAAAA 2735  
 QY 2200 AA 2242  
 Db 2736 AA 2778

## RESULT 193

ADD18806

ID ADD18806 standard; DNA; 3232 BP.

XX AC ADD18806;

XX DT 15-JAN-2004 (first entry)

XX DE Human disease related protein DNA sequence SeqID238.

XX KW human; disease state; cytostatic; antiinflammatory; ophthalmological;  
 KW antiarteriosclerotic; vulnerary; gene therapy;  
 KW hypoxia-regulated condition; tumorigenesis; angiogenesis; apoptosis;  
 KW inflammation; erythropoiesis; glycolysis; gluconeogenesis;  
 KW glucose transportation; catecholamine synthesis; iron transport;  
 KW nitric oxide synthesis; cancer; ischaemic condition; reperfusion injury;  
 KW retinopathy; neonatal stress; pre-eclampsia; atherosclerosis;  
 KW inflammatory condition; wound healing; gene; ds.

XX OS Homo sapiens.

XX PN W02003018621-A2.

XX PD 06-MAR-2003.

XX PF 23-AUG-2002; 2002WO-GB003892.

XX PR 23-AUG-2001; 2001GB-00020558.

XX PR 05-OCT-2001; 2001GB-00024037.

XX PA (OXFO-) OXFORD BIOMEDICA UK LTD.

XX PI Kingsman SM, White J, Ward NR, Harris RA, Naylor S, Mundy CR;

XX DR WPI; 2003-290046/28.

XX DR P-PSDB; ADD18805.

XX PT New substantially purified polypeptide, useful for diagnosing or treating  
 PT a hypoxia-regulated condition, such as cancer, ischemia, reperfusion  
 PT injury, retinopathy, pre-eclampsia, atherosclerosis, inflammation, or  
 PT wound healing.

XX PS Claim 27; SEQ ID NO 238; 424pp; English.

XX CC This invention relates to novel human genes and gene product which are  
 CC implicated in certain disease states. Compounds which modulate the  
 CC proteins of the invention may have cytostatic, antiinflammatory,  
 CC ophthalmological, antiarteriosclerotic or vulnerary activities. The  
 CC sequences of the invention may be useful for gene therapy. The invention  
 CC may be useful for diagnosing or treating a hypoxia-regulated condition,  
 CC such as tumorigenesis, angiogenesis, apoptosis, inflammation,  
 CC erythropoiesis, or the biological response to hypoxia conditions  
 CC including processes such as glycolysis, gluconeogenesis, glucose  
 CC transportation, catecholamine synthesis, iron transport or nitric oxide  
 CC synthesis. The disease includes cancer, ischaemic conditions, reperfusion  
 CC injury, retinopathy, neonatal stress, pre-eclampsia, atherosclerosis,  
 CC inflammatory conditions or wound healing. The present sequence is that of  
 CC a disease related protein encoding DNA sequence of the invention.

XX SQ Sequence 3232 BP; 1025 A; 555 C; 700 G; 952 T; 0 U; 0 Other;

Query Match

Best Local Similarity 3.1%; Score 68.4; DB 10; Length 3232;

Pred. No. 9.7e-05;

Matches 87; Conservative 0; Mismatches 32; Indels 0; Gaps 0;  
 QY 2124 TTGCTTTACACTCTTTCTCTTTTATCTTATTAATAAATGTTGGTCTCCACCATGNC 2183  
 Db 3038 TAGCTCTGTAATTTTACTTTTATTTGTAATTAATAACATTCGAGATCTTCTTTTATACC 3097  
 QY 2184 CCCAAA 2242  
 Db 3098 TTAATAA 3156

## RESULT 194

AD176313/C

ID AD176313 standard; DNA; 327 BP.

XX AC AD176313;

XX DT 20-MAY-2004 (first entry)

XX DE Human ovarian cancer DNA marker #9055.

XX KW Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.

XX OS Homo sapiens.

XX PN W0200170979-A2.

XX PD 27-SEP-2001.

XX PF 21-MAR-2001; 2001WO-US009126.

XX PR 21-MAR-2000; 2000US-0191031P.

XX PR 25-MAY-2000; 2000US-0207124P.

XX PR 15-JUN-2000; 2000US-0211940P.

XX PR 07-JUL-2000; 2000US-0216820P.

XX PR 25-JUL-2000; 2000US-0220661P.

XX PR 21-DEC-2000; 2000US-0257672P.

XX PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

XX PI Lee J, Lillie J;

XX DR WPI; 2001-611502/70.

XX PT Novel isolated nucleic acid molecules (markers) overexpressed in ovarian  
 PT cancer cells as compared to their normal non-cancerous ovarian cells are  
 PT used to characterize stage, grade, histological type of ovarian cancer.

XX PS Disclosure; SEQ ID NO 9055; 106pp; English.

XX CC The invention relates to nucleic acid markers which are overexpressed in  
 CC ovarian cancer cells as compared to their expression in normal (i.e. non-  
 CC cancerous) ovarian cells. The invention also relates to polypeptides  
 CC encoded by the markers, antibodies that selectively bind to the  
 CC polypeptides, a method of inhibiting ovarian cancer in a patient at risk  
 CC of developing ovarian cancer involving inhibiting expression of a gene  
 CC corresponding to a marker of the invention and a method of treating a  
 CC patient afflicted with ovarian cancer comprising providing to cells of  
 CC the patient an antisense oligonucleotide complementary to a marker of the  
 CC invention. The markers are useful for assessing if a patient is afflicted  
 CC with ovarian cancer, which involves comparing the level of expression of  
 CC a marker in a patient sample and a normal level of expression of the  
 CC marker in a control non-ovarian cancer sample. A difference between the  
 CC expression levels indicates ovarian cancer. The level of expression of a  
 CC marker corresponds to a secreted protein or to a transcribed  
 CC polynucleotide or its portion. The level of expression of the marker is  
 CC assessed by detecting the presence in the sample, a protein or protein  
 CC fragment corresponding to the marker. The presence of protein or protein  
 CC fragment is detected using an antibody that specifically binds with the  
 CC protein or protein fragment. Alternatively, the level of expression of  
 CC polynucleotide which anneals with the marker or anneals with a portion of  
 CC the polynucleotide comprising the marker, under stringent conditions. The







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RESULT 198
AAI84805
ID AAI84805 standard; cDNA; 402 BP.
XX AC
XX AA184805;
XX DT
XX 06-NOV-2001 (first entry)
XX DE
XX Human polynucleotide SEQ ID NO 4865.
XX KW
XX Human; cytokine; cell proliferation; cell differentiation; gene therapy;
XX KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
XX KW tissue growth factor; immunomodulatory; cancer; leukaemia;
XX KW nervous system disorders; arthritis; inflammation; ss.
XX OS
XX Homo sapiens.
XX FN
XX WO200164835-A2.
XX PD
XX 07-SEP-2001.
XX PF
XX 26-FEB-2001; 2001WO-US004927.
XX PR
XX 28-FEB-2000; 2000US-00515126.
XX PR
XX 18-MAY-2000; 2000US-00577409.
XX XX
XX (HYSE-) HYSEQ INC.
XX PI
XX Tang YT, Liu C, Drmanac RT;
XX WPI; 2001-514838/56.
XX DR
XX P-PSDB; RAO04874.
XX XX
XX Isolated nucleic acids and polypeptides, useful for preventing diagnosing
XX PT and treating e.g. leukemia, inflammation and immune disorders.
XX PS
XX Claim 1; SEQ ID NO 4865; 1399pp + Sequence Listing; English.
XX XX
XX The invention relates to human polynucleotides (AAI79941-AAI93841) and
XX CC the encoded proteins (AAO00010-AAO13910) that exhibit activity elating to
XX CC cytokine, cell proliferation or cell differentiation or which may induce
XX CC production of other cytokines in other cell populations. The
XX CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
XX CC peptide therapy. The polypeptides have various cytokine-like activities,
XX CC e.g. stem cell growth factor activity, haematopoiesis regulating
XX CC activity, tissue growth factor activity, immunomodulatory activity and
XX CC activin/inhibin activity and may be useful in the diagnosis and/or
XX CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
XX CC inflammation. Note: The sequence data for this patent did not form part
XX CC of the printed specification, but was obtained in electronic format
XX CC directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX SQ
XX Sequence 402 BP; 191 A; 85 C; 56 G; 69 T; 0 U; 1 Other;
XX
XX Query Match 3.0%; Score 68; DB 4; Length 402;
XX Best Local Similarity 82.8%; Pred. No. 6.2e-05;
XX Matches 77; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
XX
XX QY 2150 TTATTAATAAAATGTTGGTCTCCACCACTGCTCCCAAAAAAATAAAAAAAAAA 2209
XX Db
XX 67 TTATTAATAAACATTTGTTCTGAATAAATCTCCCAAAAAAATAAAAAAAAAA 126
XX
XX QY 2210 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242
XX Db
XX 127 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 159
XX
XX RESULT 199
ACN56273/C
ID ACN56273 standard; cDNA; 517 BP.
XX AC
XX ACN56273;
XX DT
XX 02-DEC-2004 (first entry)
XX DE
XX Cotton androecium tissue EST Clone ID: LIB3828-033-Q6-N6-E7, SEQ:11054.
XX KW
XX Cotton; plant; EST; expressed sequence tag; transgenic plant; androecium;
XX KW variety Nucotton33B; library LIB3828; molecular tag; molecular marker;
XX KW genetic mapping; molecular mapping; seed germination; plant growth;
XX KW plant quality; plant yield; plant breeding; tissue printing; ss.
XX OS
XX Gossypium hirsutum.
XX FN
XX US2004123340-A1.
XX PD
XX 24-JUN-2004.
XX PF
XX 12-DEC-2001; 2001US-00021323.
XX PR
XX 14-DEC-2000; 2000US-02555619P.
XX XX
XX (DEIK/) DEIKMAN J.
XX PA (FENG/) FENG P C C.
XX PA (FINC/) FINCHER K L.
XX PA (ZIEG/) ZIEGLER T E.
XX XX
XX Deikman J, Feng PCC, Fincher KL, Ziegler TE;
XX PI
XX WPI; 2004-479808/45.
XX DR
XX New isolated nucleic acid molecule that encodes a plant protein or its
XX PT fragment, useful for isolating a variety of agronomically significant
XX PT genes associated with plant growth, quality or yield, and as molecular
XX PT tags to map genes.
XX XX
XX Claim 1; SEQ ID NO 11054; 34pp; English.
XX
XX The invention relates to 17880 cotton expressed sequence tags (ESTs:
XX CC ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated
XX CC from primed or non-primed seeds from variety DP50B, mature seeds from
XX CC variety Coker 312 Boswell 96 Field, and androecium tissue, gynoecium
XX CC tissue, developing fibres, carpel walls and septa from variety
XX CC Nucotton33B. The invention also relates to substantially purified
XX CC proteins or their fragments encoded by nucleic acid molecules of the
XX CC invention, and to transformed plants having a nucleic acid construct
XX CC comprising a nucleic acid of the invention. The cotton ESTs are useful as
XX CC molecular tags to isolate genetic regions, to isolate genes, to map
XX CC genes, to determine gene function and to determine whether genes are
XX CC members of a particular gene family. The nucleic acid molecules may be
XX CC used for isolating a variety of agronomically significant genes
XX CC associated with plant growth, quality, yield, and could also serve as
XX CC links in metabolic and catabolic pathways. The nucleic acid molecules are
XX CC also useful for identifying genes important in initiating and maintaining
XX CC seed germination or that may be used to mitigate stresses encountered
XX CC during seed germination. The ESTs additionally enable the acquisition of
XX CC promoters and cis-regulatory elements which will be useful to express
XX CC agronomically significant genes in these tissues and/or other tissues,
XX CC and also permits the acquisition of molecular markers useful in breeding
XX CC schemes, genetic and molecular mapping, and in cloning of agronomically
XX CC significant genes. The nucleic acid molecules are further useful for
XX CC detecting the expression level or pattern of a protein or mRNA and for
XX CC detecting the presence or quantity of a protein by tissue printing. The
XX CC present sequence represents a specifically claimed EST isolated from a
XX CC cotton variety Nucotton33B androecium tissue cDNA library (LIB3828). The
XX CC sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format directly from the US
XX CC patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340
XX SQ
XX Sequence 517 BP; 234 A; 0 C; 43 G; 238 T; 0 U; 2 Other;
XX
XX Query Match 3.0%; Score 68; DB 13; Length 517;
XX Best Local Similarity 69.2%; Pred. No. 6.7e-05;
XX Matches 92; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

```

QY 2110 TCCAATGATCGCTTGGCTTTACCACTCTTCTCTTATCTATTAATAAATGTTGCT 2169  
DB 229 TCCCTTCCCTCCCTTTTAAAAAATTTAAATTAATTTTAAAAAATTTTAAT 170  
QY 2170 CTCACCACTGCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2229  
DB 169 ATAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 110  
QY 2230 AAAAAAATAAAAAA 2242  
DB 109 AAAAAAATAAAAAA 97

RESULT 200  
ACN52303  
ID ACN52303 standard; cDNA; 549 BP.  
AC ACN52303;  
DT 02-DEC-2004 (first entry)  
XX Cotton androecium tissue EST Clone ID: LIB3828-014-Q1-K6-F6, SEQ:7084.  
XX Cotton; plant; EST; expressed sequence tag; transgenic plant; androecium;  
KW variety Nucotton33B; library LIB3828; molecular tag; molecular marker;  
KW genetic mapping; molecular mapping; seed germination; plant growth;  
KW plant quality; plant yield; plant breeding; tissue printing; ss.  
XX Gossypium hirsutum.  
XX US2004123340-A1.  
PN 24-JUN-2004.  
XX 12-DEC-2001; 2001US-00021323.  
XX 14-DEC-2000; 2000US-0255619P.  
XX (DEIK/) DEIKMAN J.  
PA (FENG/) FENG P C C.  
PA (FINC/) FINCHER K L.  
PA (ZIEG/) ZIEGLER T E.  
XX Deikman J, Feng PCC, Fincher KL, Ziegler TE;  
PI WPI; 2004-479808/45.  
XX New isolated nucleic acid molecule that encodes a plant protein or its  
XX fragment, useful for isolating a variety of agronomically significant  
XX genes associated with plant growth, quality or yield, and as molecular  
XX tags to map genes.  
XX Claim 1; SEQ ID NO 7084; 34pp; English.

The invention relates to 17890 cotton expressed sequence tags (ESTs;  
ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated  
from primed or non-primed seeds from variety DP50B, mature seeds from  
variety Coker 312 Boswell 96 Field, and androecium tissue, gynoecium  
tissue, developing fibres, carpel walls and septa from variety  
Nucotton33B. The invention also relates to substantially purified  
proteins or their fragments encoded by nucleic acid molecules of the  
invention, and to transformed plants having a nucleic acid construct  
comprising a nucleic acid of the invention. The cotton ESTs are useful as  
molecular tags to isolate genetic regions, to isolate genes, to map  
genes, to determine gene function and to determine whether genes are  
members of a particular gene family. The nucleic acid molecules may be  
used for isolating a variety of agronomically significant genes  
associated with plant growth, quality, yield, and could also serve as  
links in metabolic and catabolic pathways. The nucleic acid molecules are  
also useful for identifying genes important in initiating and maintaining  
seed germination or that may be used to mitigate stresses encountered  
during seed germination. The ESTs additionally enable the acquisition of

CC promoters and cis-regulatory elements which will be useful to express  
CC agronomically significant genes in these tissues and/or other tissues,  
CC and also permits the acquisition of molecular markers useful in breeding  
CC schemes, genetic and molecular mapping, and in cloning of agronomically  
CC significant genes. The nucleic acid molecules are further useful for  
CC detecting the expression level or pattern of a protein or mRNA and for  
CC present sequence represents a specifically claimed EST isolated from a  
CC cotton variety Nucotton33B androecium tissue cDNA library (LIB3828). The  
CC sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from the US  
CC patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340  
XX  
SQ Sequence 549 BP; 247 A; 59 C; 86 G; 148 T; 0 U; 9 Other;  
Query Match 3.0%; Score 68; DB 13; Length 549;  
Best Local Similarity 66.9%; Pred. No. 6.8e-05;  
Matches 95; Conservative 0; Mismatches 47; Indels 0; Gaps 0;  
QY 2101 ATCAATCCATCCAATGATCGCTTTGCTTTTACCACTCTTCTCTTATCTATTAATAA 2160  
DB 347 ATAATCTATGTCATTTTGTGTTGACCTTATGCTGTTTATATGCAAAATGTTTCT 406  
QY 2161 AATGTTGGTCTCCACACTGCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAA 2220  
DB 407 GTTAATGGTTTCAACTAANAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 466  
QY 2221 AAAAAAATAAAAAAATAAAAAA 2242  
DB 467 AAAAAAATAAAAAAATAAAAAA 488

RESULT 201  
ABL86758/C  
ID ABL86758 standard; cDNA; 636 BP.  
XX  
AC ABL86758;  
XX 17-MAY-2002 (first entry)  
DT Human ovarian cancer related cDNA clone SEQ ID NO:9736.  
DE Human; ovarian cancer; ovarian tumour; cytostatic; gene; ss.  
XX Homo sapiens.  
XX WO200192581-A2.  
XX 06-DEC-2001.  
XX 29-MAY-2001; 2001WO-US017756.  
XX 26-MAY-2000; 2000US-0207484P.  
XX (CORI-) CORIXA CORP.  
XX Algate PA, Harlocker SL, Jones R;  
XX WPI; 2002-122075/16.  
XX Composition for therapy and diagnosis of ovarian cancer comprising  
XX polypeptide of a ovarian tumor polypeptide, polynucleotide encoding  
XX polypeptide, antibody specific to polypeptide or T cell expressing  
XX polypeptide.  
XX Claim 1; SEQ ID NO 9736; 489pp; English.  
XX The present invention describes a composition (I) comprising: carriers  
XX and immunostimulants; and a polypeptide (II) of a ovarian tumour  
XX polypeptide encoded by a polynucleotide (III) having a cDNA sequence (S1)  
XX from the 10912 nucleotide sequences as given in ABL77023 to ABL87934,  
XX (III) encoding (II) having a sequence (S2), a T cell population of (II),  
XX or antigen presenting cells that express (II). (I) has cytostatic



DR	P-PSDB; ADR04269.
XX	New polynucleotides, specifically nucleic acid fragments encoding
PT	/ flowering locus T gene (FT) or terminal flower (TFL), or Apetal3 (Ap3)
PT	homologs, useful for floral development, e.g. engineering plant flowering
PT	time.
XX	
PS	Disclosure; SEQ ID NO 35; 109pp; English.
XX	The present invention describes an isolated polynucleotide comprising a
CC	first, second, third, fourth or fifth nucleotide sequence, or their
CC	complement encoding a polypeptide either having flowering locus T gene
CC	(FT), terminal flower (TFL), or Apetal3 (Ap3) homologue activity. Also
CC	described: (1) a vector comprising the polynucleotide; (2) a recombinant
CC	DNA construct comprising the polynucleotide; (3) transforming a cell by
CC	transforming a cell with the polynucleotide; (4) a cell comprising the
CC	recombinant DNA construct; (5) producing a plant comprising transforming
CC	a plant cell with the polynucleotide, and regenerating a plant from the
CC	transformed plant cell; (6) a plant comprising the recombinant DNA
CC	construct; (7) a seed comprising the recombinant DNA construct; (8) an
CC	isolated polynucleotide comprising a first nucleotide sequence, where the
CC	first nucleotide sequence contains at least 30 nucleotides, and where the
CC	first nucleotide sequence is comprised by another polynucleotide, where
CC	the other polynucleotide includes the second, third, fourth, fifth or
CC	sixth nucleotide sequence; (9) an isolated polypeptide having FT or Ap3
CC	homologue activity, as described above; and (10) isolating a polypeptide
CC	encoded by the polynucleotide comprising isolating the polypeptide from a
CC	cell containing a recombinant DNA construct comprising the polynucleotide
CC	operably linked to a regulatory sequence. The polynucleotides are useful
CC	for floral development, e.g. engineering plant sterility/fertility,
CC	flowering time, plant growth rate, inflorescence architecture, and tissue
CC	culture morphology and the rate of cell division to enhance
CC	transformation. The present sequence encodes an FT homologue from the
CC	present invention.
XX	
SQ	Sequence 850 BP; 292 A; 176 C; 159 G; 223 T; 0 U; 0 Other;
	Query Match            3.0%; Score 68; DB 13; Length 850;
	Best Local Similarity   71.2%; Pred. No. 7.8e-05;
	Matches   89; Conservative   0; Mismatches   36; Indels   0; Gaps   0;
QY	2118 TCGCCCTTCGTTACCACTCTTTCCCTTTATCTATTATAAAGTGTCCTCCACCA 2177
Db	
	711 TCTCTATATATATACCTCTCTCCTACTCTATCAAATATATAAGTTATCTTTAAAA 770
QY	2178 CTGNCTCCCAGAA 2237
Db	
	771 AA 830
QY	2238 AAAAA 2242
Db	
	831 AAAAA 835
	RESULT 204
ID	AZ90632
ID	AZ90632 standard; DNA; 1690 BP.
XX	
AC	AZ90632;
XX	
DT	13-JUN-2000 (first entry)
XX	
DE	Human adipose tissue protein #2 encoding DNA.
XX	
KW	Adipose tissue; obesity; diabetes; hyperlipemia; hypertension; human;
KW	arteriosclerosis; hyperuricemia; sleep apnea syndrome; ds.
OS	Homo sapiens.
XX	
FH	Key Location/Qualifiers
FT	1..129 /tag= a
FT	CDS 130..1224
XX	
FT	/*tag= b
FT	1225..1690
XX	/*tag= c
PN	JP2000037190-A.
XX	
PD	08-FEB-2000.
XX	
PF	23-JUL-1998; 98JP-00225228.
PR	23-JUL-1998; 98JP-00225228.
PA	(NISR ) JAPAN TOBACCO INC.
XX	
WI	WPI; 2000-306578/27.
P	P-PADB; AY67599.
PT	A physiologically active protein specifically derived from mammal tissue.
PS	Claim 16; Page 29-31; 50pp; Japanese.
CC	The invention relates to identification of genes and proteins of adipose
CC	tissue relating to obesity, particularly complications of visceral
CC	obesity including diabetes, hyperlipemia, hypertension, arteriosclerosis,
CC	hyperuricemia and sleep apnea syndrome. The genes (AAZ90631-633) and the
CC	proteins (AAZ90634-90636) are used in the genetic diagnosis, prevention
CC	and treatment of adipose tissue related diseases
XX	
SQ	Sequence 1690 BP; 345 A; 578 C; 489 G; 278 T; 0 U; 0 Other;
	Query Match            3.0%; Score 68; DB 3; Length 1690;
	Best Local Similarity   65.8%; Pred. No. 9.7e-05;
	Matches   98; Conservative   0; Mismatches   51; Indels   0; Gaps   0;
QY	2094 ACACATAATCATTCATCGCCTTTGGTTTACCACCTCTTCCTTTTATCTAT 2153
Db	
	1497 ACCCATCTGCATGTGTTTTTAATTCCTTCGGTTTCTCATCATGTTACGTTTTTAA 1556
QY	2154 TAATAAAATGTGTCTCCACCACTGNCTCCCCAAAAAAAAAAAAAAAAAAAAAA 2213
Db	
	1557 TAAAGCAAGTTATTCTATTCAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1616
QY	2214 AA 2242
Db	
	1617 AA 1645
	RESULT 205
ID	ADL08408
ID	ADL08408 standard; DNA; 4130 BP.
XX	
AC	ADL08408;
XX	
DT	06-MAY-2004 (first entry)
XX	
DE	Human cancer suppressor gene PP14434.
XX	
KW	ds; gene; cancer suppressor; cancer.
OS	Homo sapiens.
XX	
FH	Key Location/Qualifiers
FT	CDS 483..1181
FT	/*tag= a
XX	
XX	CN1403479-A.
XX	
PD	19-MAR-2003.
XX	
FF	12-SEP-2001; 2001CN-00126727.
XX	
PR	12-SEP-2001; 2001CN-00126727.
XX	



CC from primed or non-primed seeds from variety DP50B, mature seeds from  
CC variety Coker 312 Boswell 96 Field, and androecium tissue, gynoeceum  
CC tissue, developing fibres, carpel walls and septa from variety  
CC Nucotton33B. The invention also relates to substantially purified  
CC proteins or their fragments encoded by nucleic acid molecules of the  
CC invention, and to transformed plants having a nucleic acid construct  
CC comprising a nucleic acid of the invention. The cotton ESTs are useful as  
CC molecular tags to isolate genetic regions, to isolate genes, to map  
CC genes, to determine gene function and to determine whether genes are  
CC members of a particular gene family. The nucleic acid molecules may be  
CC used for isolating a variety of agronomically significant genes  
CC associated with plant growth, quality, yield and could also serve as  
CC links in metabolic and catabolic pathways. The nucleic acid molecules are  
CC also useful for identifying genes important in initiating and maintaining  
CC seed germination or that may be used to mitigate stresses encountered  
CC during seed germination. The ESTs additionally enable the acquisition of  
CC promoters and cis-regulatory elements which will be useful to express  
CC agronomically significant genes in these tissues and/or other tissues,  
CC and also permits the acquisition of molecular markers useful in breeding  
CC schemes, genetic and molecular mapping, and in cloning of agronomically  
CC significant genes. The nucleic acid molecules are further useful for  
CC detecting the expression level or pattern of a protein or mRNA and for  
CC detecting the presence or quantity of a protein by tissue printing. The  
CC present sequence represents a specifically claimed EST isolated from a  
CC cotton variety Nucotton33B gynoeceum tissue cDNA library (LI3829). The  
CC sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from the US  
CC patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340  
XX  
SQ Sequence 420 BP; 186 A; 13 C; 91 G; 129 T; 0 U; 1 Other;

Query Match 3.0%; Score 67.8; DB 13; Length 420;  
Best Local Similarity 66.7%; Pred. No. 6.9e-05;  
Matches 96; Conservative 0; Mismatches 48; Indels 0; Gaps 0;  
QY 2099 TAATCATTCATCCAAATGATCGCTTGTCTTACCACTCTTCTTTTATCTTTATTAATA 2158  
Db 168 TCAITCTTAATTAATTTACAATTTAAACAGTTCACCCCTCCCTTAATTAATAA 109  
QY 2159 AAAATGTGTGTCCTCCACTGCTCCCAAAAAA 2218  
Db 108 AAAATAAATTTAAACCCCTCCCATATTAAAAA 49  
QY 2219 AAAAAA 2242  
Db 48 AAAAAA 25

RESULT 208  
ABV56874  
ID ABV56874 standard; cDNA; 429 BP.  
XX  
AC ABV56874;  
XX  
AC  
XX  
DT 17-SEP-2002 (first entry)  
XX  
DE Human prostate expression marker cDNA 56865.  
XX  
KW Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;  
KW pharmacogenomic marker; gene; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200160860-A2.  
XX  
PD 23-AUG-2001.  
XX  
PF 20-FEB-2001; 2001WO-US005171.  
XX  
PR 17-FEB-2000; 2000US-0193319P.  
PR 16-MAR-2000; 2000US-0199862P.  
PR 25-MAY-2000; 2000US-0207454P.  
PR 09-JUN-2000; 2000US-0211314P.

PR 18-JUL-2000; 2000US-0219007P.  
PR 13-DEC-2000; 2000US-0255281P.  
XX  
PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.  
XX  
PI Schlegel R, Endege WO, Monahan JE;  
XX  
XX WPI; 2001-662795/76.  
DR  
XX Novel isolated nucleic acid molecule associated with cancerous state of  
PT prostate cells and correlating with presence of prostate cancer, useful  
PT for detecting presence of prostate cancer, stage of prostate cancer.  
XX  
PS Claim 1; Page 10957; 11750pp; English.  
XX  
XX The invention relates to an isolated nucleic acid molecule (I) comprising  
CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the  
CC specification or its complement. (I) is useful for: (a) assessing whether  
CC a patient is afflicted with prostate cancer; (b) monitoring the  
CC progression of prostate cancer in a patient; (c) assessing the efficacy  
CC of a test compound to inhibit prostate cancer in a patient; (d) assessing  
CC the efficacy of a therapy for inhibiting prostate cancer in a patient;  
CC (e) selecting a composition for inhibiting prostate cancer in a patient;  
CC (f) assessing the prostate cell carcinogenic potential of a compound; (g)  
CC determining whether prostate cancer has metastasized in a patient; (h)  
CC assessing the aggressiveness or indolence of prostate cancer in a patient  
CC ; (I) is also useful as a pharmacodynamic or pharmacogenomic marker  
XX  
SQ Sequence 429 BP; 193 A; 77 C; 60 G; 99 T; 0 U; 0 Other;

Query Match 3.0%; Score 67.8; DB 5; Length 429;  
Best Local Similarity 72.5%; Pred. No. 7e-05;  
Matches 87; Conservative 0; Mismatches 33; Indels 0; Gaps 0;  
QY 2123 TTGTGTTTACCACTCTTCTTCTTTATCTATTATTAATAATGTGTCTCCACCCTGNC 2182  
Db 220 TTTTCTTTAAATATACTCTCTTTTATGTCTTCAATAATTAATGCTTTGGGTCTTCAA 279  
QY 2183 TCCCAAAAAA 2242  
Db 280 AAAAAA 339

RESULT 209  
ACN51258/c  
ID ACN51258 standard; cDNA; 554 BP.  
XX  
AC ACN51258;  
XX  
DT 02-DEC-2004 (first entry)  
XX  
DE Cotton androecium tissue EST Clone ID: LTB3828-013-Q1-N6-B2, SEQ:6039.  
XX  
KW Cotton; plant; EST; expressed sequence tag; transgenic plant; androecium;  
KW variety Nucotton33B; library LTB3828; molecular tag; molecular marker;  
KW genetic mapping; molecular mapping; seed germination; plant growth;  
KW plant quality; plant yield; plant breeding; tissue printing; ss.  
XX  
OS Gossypium hirsutum.  
XX  
PN US2004123340-A1.  
XX  
PD 24-JUN-2004.  
XX  
PF 12-DEC-2001; 2001US-00021323.  
XX  
PR 14-DEC-2000; 2000US-0255619P.  
XX  
PA (DEIK/) DEIKMAN J.  
PA (FENG/) FENG P C C.  
PA (FINC/) FINCHER K L.  
PA (ZIEG/) ZIEGLER T E.  
XX



PI Deikman J, Feng PCC, Fincher KL, Ziegler TE;  
 XX WPI; 2004-479808/45.  
 XX  
 XX New isolated nucleic acid molecule that encodes a plant protein or its  
 PT fragment, useful for isolating a variety of agronomically significant  
 PT genes associated with plant growth, quality or yield, and as molecular  
 PT tags to map genes.  
 XX  
 XX Claim 1; SEQ ID NO 6039; 34pp; English.  
 XX  
 CC The invention relates to 17880 cotton expressed sequence tags (ESTs;  
 CC ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated  
 CC from primed or non-primed seeds from variety DP50B, mature seeds from  
 CC variety Coker 312 Boswell 96 Field, and androecium tissue, gynoecium  
 CC tissue, developing fibres, carpel walls and septa from variety  
 CC Nucleon33B. The invention also relates to substantially purified  
 CC proteins or their fragments encoded by nucleic acid molecules of the  
 CC invention, and to transformed plants having a nucleic acid construct  
 CC comprising a nucleic acid of the invention. The cotton ESTs are useful as  
 CC molecular tags to isolate genetic regions, to isolate genes, to map  
 CC genes, to determine gene function and to determine whether genes are  
 CC members of a particular gene family. The nucleic acid molecules may be  
 CC used for isolating a variety of agronomically significant genes  
 CC associated with plant growth, quality, yield, and could also serve as  
 CC links in metabolic and catabolic pathways. The nucleic acid molecules are  
 CC also useful for identifying genes important in initiating and maintaining  
 CC seed germination or that may be used to mitigate stresses encountered  
 CC during seed germination. The ESTs additionally enable the acquisition of  
 CC promoters and cis-regulatory elements which will be useful to express  
 CC agronomically significant genes in these tissues and/or other tissues,  
 CC and also permits the acquisition of molecular markers useful in breeding  
 CC schemes, genetic and molecular mapping, and in cloning of agronomically  
 CC significant genes. The nucleic acid molecules are further useful for  
 CC detecting the expression level or pattern of a protein or mRNA and for  
 CC detecting the presence or quantity of a protein by tissue printing. The  
 CC present sequence represents a specifically claimed EST isolated from a  
 CC cotton variety Nucleon33B androecium tissue cDNA library (LIB3828). The  
 CC sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from the US  
 CC patent office at seqdata.uspto.gov/sequence.html?docID=US20040123340  
 XX  
 SQ Sequence 554 BP; 292 A; 15 C; 134 G; 113 T; 0 U; 0 Other;  
 Query Match 3.0%; Score 67.8; DB 13; Length 554;  
 Best Local Similarity 72.5%; Pred. No. 7.6e-05;  
 Matches 87; Conservative 0; Mismatches 33; Indels 0; Gaps 0;  
 QY 2123 TTGCTTTACCACTCTTCTCTTTATCTTATTAATAAAATGTTGGTCTCCACCACTGNC 2182  
 DB 146 TTTTCTTTTATTTTCTTTTATTTTATTTTAAATTTTAAATTTTATT 87  
 QY 2183 TCCCAAA 2242  
 DB 86 ATAA 27  
 RESULT 210  
 ABV40163  
 ID ABV40163 standard; cDNA; 556 BP.  
 XX  
 AC ABV40163;  
 XX  
 XX 16-SEP-2002 (first entry)  
 DT Human prostate expression marker cDNA 40154.  
 DE Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;  
 XX pharmacogenomic marker; gene; ss.  
 XX Homo sapiens.  
 OS  
 XX WO200160860-A2.  
 PN

XX 23-AUG-2001.  
 PD  
 XX  
 XX 20-FEB-2001; 2001WO-US005171.  
 PF  
 XX 17-FEB-2000; 2000US-0183319P.  
 PR 16-MAR-2000; 2000US-0189862P.  
 PR 25-MAY-2000; 2000US-0207454P.  
 PR 09-JUN-2000; 2000US-0211314P.  
 PR 18-JUL-2000; 2000US-0219007P.  
 PR 13-DEC-2000; 2000US-0255281P.  
 XX  
 XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.  
 PA  
 XX Schlegel R, Endege WO, Monahan JE;  
 PI  
 XX WPI; 2001-662795/76.  
 DR  
 XX Novel isolated nucleic acid molecule associated with cancerous state of  
 PT prostate cells and correlating with presence of prostate cancer, useful  
 PT for detecting presence of prostate cancer, stage of prostate cancer.  
 XX  
 PS Claim 1; Page 8115; 11750pp; English.  
 XX  
 CC The invention relates to an isolated nucleic acid molecule (I) comprising  
 CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the  
 CC specification or its complement. (I) is useful for: (a) assessing whether  
 CC a patient is afflicted with prostate cancer; (b) monitoring the efficacy  
 CC of progression of prostate cancer in a patient; (c) assessing the efficacy  
 CC of a test compound to inhibit prostate cancer in a patient; (d) assessing  
 CC the efficacy of a therapy for inhibiting prostate cancer in a patient;  
 CC (e) selecting a composition for inhibiting prostate cancer in a patient;  
 CC (f) assessing the prostate cell carcinogenic potential of a compound; (g)  
 CC determining whether prostate cancer has metastasized in a patient; (h)  
 CC assessing the aggressiveness or indolence of prostate cancer in a patient  
 CC ; (I) is also useful as a pharmacodynamic or pharmacogenomic marker  
 XX  
 SQ Sequence 556 BP; 389 A; 1 C; 51 G; 113 T; 0 U; 2 Other;  
 Query Match 3.0%; Score 67.8; DB 5; Length 556;  
 Best Local Similarity 72.5%; Pred. No. 7.6e-05;  
 Matches 87; Conservative 0; Mismatches 33; Indels 0; Gaps 0;  
 QY 2123 TTGCTTTACCACTCTTCTCTTTATCTTATTAATAAAATGTTGGTCTCCACCACTGNC 2182  
 DB 40 TTTTCTTTTATTTTCTTTTATTTTATTTTAAATTTTCTTTTATTTTAAATAA 99  
 QY 2183 TCCCAAA 2242  
 DB 100 AAA 159  
 RESULT 211  
 ABV40063  
 ID ABV40063 standard; cDNA; 556 BP.  
 XX  
 AC ABV40063;  
 XX  
 XX 16-SEP-2002 (first entry)  
 DT Human prostate expression marker cDNA 40054.  
 DE Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;  
 XX pharmacogenomic marker; gene; ss.  
 XX Homo sapiens.  
 OS  
 XX WO200160860-A2.  
 PN  
 XX 23-AUG-2001.  
 PD  
 XX 20-FEB-2001; 2001WO-US005171.  
 PF  
 XX







QY 2183 TCCCAAA 2242  
 Db 528 TCTCAAA 587

RESULT 217  
 AAS27002  
 ID AAS27002 standard; cDNA; 810 BP.  
 XX  
 AC AAS27002;  
 XX  
 DT 07-NOV-2001 (first entry)  
 XX  
 DE cDNA encoding novel signal transduction pathway protein, Seq ID 37.  
 XX  
 KW Neuroprotective; cytostatic; dermatological; immunosuppressive; tumour;  
 KW antiinflammatory; anti-Hiv; antibacterial; antinflammatory; cancer;  
 KW immune system disorder; rheumatoid arthritis; inflammatory condition;  
 KW organ transplant rejection; infection; hepatitis C; blood disorder;  
 KW sickle cell anaemia; hyperproliferative disorder; Gaucher's disease;  
 KW neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;  
 KW chromosomal abnormality; Down syndrome; ischaemia; renal disorder;  
 KW cardiovascular; respiratory; wound healing; endocrine; Addison's disease;  
 KW reproductive system; gastrointestinal; liver disorder; AIDS; ss;  
 KW acquired immune deficiency syndrome.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200154733-A1.  
 XX  
 PD 02-AUG-2001.  
 XX  
 PF 17-JAN-2001; 2001WO-US001312.  
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PR	17-NOV-2000;	2000US-0249300P.	
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PR	01-DEC-2000;	2000US-0250391P.	
PR	03-DEC-2000;	2000US-0251030P.	
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PR	08-DEC-2000;	2000US-0251868P.	
PR	08-DEC-2000;	2000US-0251869P.	
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PR	11-DEC-2000;	2000US-0254097P.	
PR	05-JAN-2001;	2001US-0259678P.	
XX	(HUMA-) HUMAN GENOME SCI INC.		
PA			
XX	Rosen CA, Barash SC, Ruben SM;		
PI			
XX	WPI: 2001-465460/50.		
DR	P-PSDB; AAU17085.		
DR			
XX			
PT	Novel polypeptides useful for diagnosing, treating, preventing and/or		
PT	prognosing disorders related to the proteins, including cancers, immune		
PT	disorders and neuronal disorders.		
XX			
XX	Claim 1; SEQ ID NO 37; 880pp; English.		
XX			
CC	The invention relates to novel isolated polypeptides (I), and		
CC	polynucleotides (II). (I), (II) and the antibody to (I) are useful for		
CC	diagnosing, preventing and treating diseases including immune system		
CC	disorders (e.g. congenital and acquired immunodeficiencies, autoimmune		
CC	disorders (e.g. rheumatoid arthritis), inflammatory conditions, organ		
CC	transplant rejections and graft versus host disease, infectious diseases		
CC	(e.g. hepatitis C), bleeding disorders, haemoglobin abnormalities and		
CC	other blood-related disorders (sickle cell anaemia), myeloproliferative		
CC	disorders, primary haematopoietic disorders, hyperproliferative disorders		
CC	(e.g. Gaucher's disease and cancer), neurodegenerative disorders (e.g.		
CC	Alzheimer's disease, Parkinson's disease), chromosomal abnormalities		
CC	(Down syndrome), ischemic injury (e.g. stroke), renal disorders (e.g.		
CC	glomerulonephritis), cardiovascular disorders (e.g. arrhythmia),		
CC	respiratory disorders, dermatological disorders, in wound healing,		
CC	epithelial cell proliferation, endocrine disorders (e.g. Addison's		
CC	disease), reproductive system disorders, gastrointestinal disorder		
CC	(inflammatory disorders), liver disorders (cirrhosis), as stimulators of		
CC	B-cell responsiveness to pathogens, activators of T-cells, to induce		
CC	higher affinity antibodies, and as a means to induce tumour proliferation		
CC	in pathologies e.g. acquired immune deficiency syndrome (AIDS). AAS26976-		
CC	AAS27850 represent novel signal transduction pathway protein coding		
CC	sequences and PCR primers of the invention		
XX			
QY	Query Match 3.0%; Score 67.8; DB 4; Length 810;		
	Best Local Similarity 85.2%; Pred. No. 8.5e-05;		
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Db	714 AATACAGTTGCTTCGGCTCCCTCAAAAAAATAAAAAAATAAAAAA 773		
QY	2215 AAAAAAATAAAAAAATAAAAAAATAAAAAA 2242		

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PR 08-DEC-2000; 2000US-0251856P.  
PR 08-DEC-2000; 2000US-0251866P.  
PR 08-DEC-2000; 2000US-0251869P.  
XX  
XX (ROSE/) ROSEN C A.  
PA (RUBE/) RUBEN S M.  
PA (BARA/) BARASH S C.  
XX  
XX Rosen CA, Ruben SM, Barash SC;  
XX  
XX WPI: 2003-719985/68.  
DR P-PSDB; ADE93793.  
XX  
XX New isolated polypeptide useful for diagnosing and treating  
PT immunosuppressive conditions such as autoimmune disease and Parkinson's  
PT disease.  
XX  
XX Claim 3; SEQ ID NO 37; 345pp; English.  
XX  
XX The invention relates to an isolated polypeptide. The polypeptide is  
CC useful for diagnosing a pathological condition or a susceptibility to a  
CC pathological condition in a subject, by determining the presence or  
CC amount of expression of the polypeptide in a biological sample and  
CC diagnosing a pathological condition or a susceptibility to a pathological  
CC condition based on the presence or amount of expression of the  
CC polypeptide. The polypeptide is also useful for identifying a binding  
CC partner to the polypeptide, which involves contacting the polypeptide  
CC with a binding partner and determining whether the binding partner  
CC affects an activity of the polypeptide. The polypeptide or the nucleic  
CC acid encoding the polypeptide is useful for preventing, treating, or  
CC ameliorating a medical condition, which involves administering the  
CC polypeptide or the nucleic acid to a mammalian subject. The nucleic acid  
CC is useful for diagnosing a pathological condition or a susceptibility to  
CC a pathological condition in a subject, which involves determining the  
CC presence or absence of a mutation in the nucleic acid, and diagnosing a  
CC pathological condition or susceptibility to a pathological condition  
CC based on the presence or absence of the mutation. The polypeptide, the  
CC nucleic acid and an antibody to the polypeptide are useful for treating  
CC autoimmune disease, Parkinson's disease, silicosis, gastrointestinal  
CC disease, atherosclerosis, haemophilia, thrombocytopenia. The polypeptide,  
CC the nucleic acid and the antibody are useful as immunosuppressive agents,  
CC as adjuvants to enhance immune responses, and as agents to induce higher  
CC affinity antibodies and increase serum immunoglobulin concentrations. The  
CC present sequence represents cDNA encoding a novel human protein. Note:  
CC The sequence data for this patent did not form part of the printed  
CC specification but was obtained in electronic format direct from USPTO at  
CC seqdata.uspto.gov/sequence.html?docID=20020168711.  
XX  
SQ Sequence 810 BP; 232 A; 224 C; 192 G; 162 T; 0 U; 0 Other;  
Query Match 3.0%; Score 67.8; DB 10; Length 810;  
Best Local Similarity 85.2%; Pred. No. 8.5e-05;  
Matches 75; Conservative 0; Mismatches 13; Indels 0; Gaps 0;  
Oy 2155 AATAAAATGTTGGTCTCCACCTGCTCCCAAAAAAATAAAAAAAAAAAAAA 2214  
Db 714 AATACAGTTGTTGGCTCGGCTCCCTCAAAAAAAAAAAAAAAAAAAAAA 773  
Oy 2215 AAAAAAAAAAAAAAAAAAAAAA 2242  
Db 774 AAAAAAAAAAAAAAAAAAAAAA 801  
RESULT 219  
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ID ADM19285 standard; cDNA; 1274 BP.  
XX  
XX ADM19285;  
AC  
XX 20-MAY-2004 (first entry)  
DT  
XX Novel human channel/transporter gene #82.  
DE

XX ds; Gene; immunosuppressive; antiarthritic; antirheumatic;  
KW antiproliferative; cytostatic; cardiant; vasotropic; cerebroprotective;  
KW nootropic; neuroprotective; antibacterial; virucide; fungicide;  
KW ophthalmological; Gene therapy; channel/transporter protein;  
KW rheumatoid arthritis; neoplasm; cardiac arrest; cerebrovascular disorder;  
KW cerebral ischemia; angiogenesis; cardiac arrest; nervous system disorder;  
KW Alzheimer's disease; ocular disorder; corneal infection; wound healing;  
KW epithelial cell proliferation; skin aging; sunburn; transplantation;  
KW chemotaxis; food additive.  
XX  
XX Homo sapiens.  
OS  
XX WO200154472-A2.  
FN  
XX 02-AUG-2001.  
PD  
XX  
XX 17-JAN-2001; 2001WO-US001307.  
PF  
XX  
XX 31-JAN-2000; 2000US-0179065P.  
PR 04-FEB-2000; 2000US-0180628P.  
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PR 02-MAR-2000; 2000US-0186350P.  
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PR 08-NOV-2000; 2000US-0246526P.  
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PR 17-NOV-2000; 2000US-0249300P.  
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PR 01-DEC-2000; 2000US-0250391P.  
PR 05-DEC-2000; 2000US-0251030P.  
PR 05-DEC-2000; 2000US-0251988P.

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PR 06-DEC-2000; 2000US-0251479P.  
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PR 11-DEC-2000; 2000US-0251990P.  
PR 11-DEC-2000; 2000US-0254097P.  
PR 05-JAN-2001; 2001US-0259678P.  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX Rosen CA, Barash SC, Ruben SM;  
XX WPI; 2001-476159/51.  
XX P-PSDB; ADM19764.  
XX Isolated nucleic acid molecule encoding a channel/transporter protein is  
XX used in preventing, treating or ameliorating a medical condition.  
XX Claim 1; SEQ ID NO 92; 809pp; English.  
XX The invention relates to an isolated nucleic acid molecule encoding a  
XX channel/transporter protein or sequences at least 95% identical to a  
XX these. The nucleic acids and proteins encoded by them are used to  
XX prevent, treat or ameliorate a medical condition in e.g. humans, mice,  
XX rabbits, goats, horses, cats, dogs, chickens or sheep. They are also used  
XX in diagnosing a pathological condition or susceptibility to a  
XX pathological condition. The antibodies to the proteins can also be used  
XX in alleviating symptoms associated with the disorders and in diagnostic  
XX immunoassays e.g. radioimmunoassays or enzyme linked immunosorbent assays  
XX (ELISA). Disorders which are diagnosed or treated include autoimmune  
XX diseases e.g. rheumatoid arthritis, hyperproliferative disorders e.g.  
XX neoplasms of the breast or liver, cardiovascular disorders e.g. cardiac  
XX arrest, cerebrovascular disorders e.g. cerebral ischemia, angiodenesis,  
XX nervous system disorders e.g. Alzheimer's disease, infections caused by  
XX bacteria, viruses and fungi and ocular disorders e.g. corneal infection.  
XX The polypeptides can also be used to aid wound healing and epithelial  
XX cell proliferation, to prevent skin aging due to sunburn, to maintain  
XX organs before transplantation, for supporting cell culture of primary  
XX tissues, to regenerate tissues and in chemotaxis. The polypeptides can  
XX also be used as a food additive or preservative to increase or decrease  
XX storage capabilities. This sequence corresponds to a gene of the  
XX invention.  
XX Sequence 1274 BP; 331 A; 351 C; 387 G; 205 T; 0 U; 0 Other;  
XX Query Match 3.0%; Score 67.8; DB 5; Length 1274;  
XX Best Local Similarity 77.9%; Pred. No. 9.8e-05;  
XX Matches 81; Conservative 0; Mismatches 23; Indels 0; Gaps 0;  
QY 2139 TTCCTTTTATCTATTATAATAAATGTTGCTCTCCACCACTGCTCCCAAAAAA 2198  
Db 1156 TTCCTTTTCCCTCAATGCAAGCCCTTGTGCAACGAAAGCTCAAAAAA 1215  
QY 2199 AA 2242  
Db 1216 AA 1259  
RESULT 220  
ACN39160  
ID ACN39160 standard; cDNA; 2126 BP.  
XX AC ACN39160;  
XX AC ACN39160;  
XX 18-NOV-2004 (first entry)  
XX Tumour-associated antigenic target (TAT) cDNA DNA325414, SEQ ID NO:3133.  
XX Tumour-associated antigenic target; TAT; human; overexpression; cancer;  
XX tumour; diagnosis; cell proliferative disorder; breast cancer;  
XX colorectal cancer; lung cancer; ovarian cancer; liver cancer;



central nervous system cancer; bladder cancer; pancreatic cancer; cervical cancer; melanoma; leukaemia; hybridisation probe; chromosome identification; chromosome mapping; gene mapping; gene therapy; cytostatic; gene; ss.  
Homo sapiens.  
WO2004030615-A2.  
15-APR-2004.  
29-SEP-2003; 2003WO-US028547.  
02-OCT-2002; 2002US-0414971P.  
(GETH ) GENENTECH INC.  
Wu TD, Zhang Z, Zhou Y;  
WPI; 2004-347921/32.  
P-PSDB; ABM81217.  
New tumor-associated antigenic target polypeptides and nucleic acids, useful in preparing a medicament for treating or detecting a proliferative disorder, e.g. breast, lung, colorectal, ovarian or prostate cancer or tumor.  
Claim 1; SEQ ID NO 3133; 7273pp; English.  
The invention relates to human tumour-associated antigenic target (TAT) polypeptides, and their related nucleic acids. The TAT polypeptides are overexpressed in cancer tissues compared to normal tissues, and may thus serve as effective targets for the diagnosis and treatment of cancer in mammals. The invention also relates to nucleic acid and polypeptide sequences at least 80% identical to the TAT nucleic acids and polypeptides; expression vectors and host cells comprising a TAT nucleic acid; an antibody specific for a TAT polypeptide; a peptide or organic molecule which binds to a TAT polypeptide; fusion proteins comprising a TAT polypeptide; and methods and compositions for the treatment or diagnosis of cancer in mammals. TAT polypeptides, nucleic acids, antibodies, antagonists, binding molecules and compositions are useful for diagnosing or treating a cell proliferative disorder associated with increased TAT expression, particularly cancers such as breast cancer, colorectal cancer, lung cancer, ovarian cancer, liver cancer, bladder cancer, pancreatic cancer, cervical cancer, cancers of the central nervous system, melanoma and leukaemia. TAT nucleic acids may further be used as hybridisation probes, in chromosome and gene mapping, in chromosome identification and in gene therapy. The present sequence represents a TAT nucleic acid of the invention  
Sequence 2126 BP; 442 A; 690 C; 610 G; 384 T; 0 U; 0 Other;  
Query Match 3.0%; Score 67.8; DB 13; Length 2126;  
Best Local Similarity 85.2%; Pred. NO. 0.00012;  
Matches 75; Conservative 0; Mismatches 13; Indels 0; Gaps 0;  
Qy 2155 AATAAAATGTTGGTCTCCACACTGCTCCCAAAAAAAAAAAAAAAAAAAAAA 2214  
Db 2012 AATACAGTTGTTGGCTCCGCTCCCTCAAAAAAAAAAAAAAAAAAAAAA 2071  
Qy 2215 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242  
Db 2072 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2099  
RESULT 221  
ADP23018  
ID ADP23018 standard; cDNA; 2126 BP.  
XX  
AC ADP23018;  
XX  
DT 18-NOV-2004 (first entry)  
XX

DE PRO polypeptide encoding cDNA SEQ ID NO:112.  
XX ss: gene; PRO; antiinflammatory; antiarthritic; antirheumatic;  
KW immunosuppressive; osteopathic; antidiabetic; dermatological;  
KW antipsoriatic; anti-allergic; antiasthmatic; hepatotropic; respiratory;  
KW gene therapy; immune system.  
XX Unidentified.  
OS  
XX WO2004041170-A2.  
PN  
XX 21-MAY-2004.  
PD  
XX 30-OCT-2003; 2003WO-US034312.  
PF  
XX 01-NOV-2002; 2002US-0423394P.  
PR  
XX (GETH ) GENENTECH INC.  
PA  
XX Clark H, Schoenfeld J, Van Lookeren M, Williams PM, Wood WI;  
PI Wu TD;  
PI  
XX WPI; 2004-419628/39.  
DR P-PSDB; ADP23019.  
DR  
XX New PRO polypeptides and polynucleotides, useful for treating e.g.  
PT erythematous, rheumatoid arthritis, diabetes mellitus, immune-mediated  
PT renal disease, or demyelinating diseases of the central or peripheral  
PT nervous system.  
PT  
XX Claim 1; SEQ ID NO 112; 2940pp; English.  
XX The invention relates to a novel isolated nucleic acid and the PRO  
XX polypeptide encoded by it. A protein of the invention has  
XX antiinflammatory, antiarthritic, antirheumatic, immunosuppressive,  
XX osteopathic, antidiabetic, dermatological, antipsoriatic, anti-allergic,  
XX antiasthmatic, hepatotropic, and respiratory activity. A polynucleotide  
XX of the invention may have a use in gene therapy. The PRO polypeptide, its  
XX agonist, antagonist, or antibody that specifically binds to the  
XX polypeptide is useful for treating an immune related disorder such as  
XX systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis,  
XX juvenile chronic arthritis, a spondyloarthropathy, systemic sclerosis, an  
XX idiopathic inflammatory myopathy, Sjogren's syndrome, systemic  
XX vasculitis, sarcoidosis, autoimmune haemolytic anaemia, autoimmune  
XX thrombocytopenia, thyroiditis, diabetes mellitus, immune-mediated renal  
XX disease, a demyelinating disease of the central or peripheral nervous  
XX system, idiopathic demyelinating polyneuropathy, Guillain-Barre syndrome,  
XX a chronic inflammatory demyelinating polyneuropathy, a hepatobiliary  
XX disease, infectious or autoimmune chronic active hepatitis, primary  
XX biliary cirrhosis, granulomatous hepatitis, sclerosing cholangitis,  
XX inflammatory bowel disease, gluten-sensitive enteropathy, Whipple's  
XX disease, an autoimmune or immune-mediated skin disease, a bullous skin  
XX disease, erythema multiforme, contact dermatitis, psoriasis, an allergic  
XX disease, asthma, allergic rhinitis, atopic dermatitis, food  
XX hypersensitivity, urticaria, an immunologic disease of the lung,  
XX eosinophilic pneumonia, idiopathic pulmonary fibrosis, hypersensitivity  
XX pneumonitis, a transplantation associated disease, graft rejection or  
XX graft-versus-host disease. The present sequence encodes a PRO protein of  
XX the invention.  
SQ Sequence 2126 BP; 442 A; 690 C; 610 G; 384 T; 0 U; 0 Other;  
Query Match 3.0%; Score 67.8; DB 13; Length 2126;  
Best Local Similarity 85.2%; Pred. No. 0.00012;  
Matches 75; Conservative 0; Mismatches 13; Indels 0; Gaps 0;  
Qy 2155 AATAAAATGTTGGTCTCCACACTGCTCCCAAAAAAAAAAAAAAAAAAAAAA 2214  
Db 2012 AATACAGTTGTTGGCTCCGCTCCCTCAAAAAAAAAAAAAAAAAAAAAA 2071  
Qy 2215 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242  
Db 2072 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2099



CC immune disorders e.g. Addison's disease, allergies, autoimmune haemolytic  
CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,  
CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)  
CC cardiovascular disorders such as myocardial ischaemias; (d) wound healing  
CC ; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)  
CC infectious diseases such as viral, bacterial, fungal and parasitic  
CC infections  
XX

Sequence 575 BP; 200 A; 106 C; 119 G; 150 T; 0 U; 0 Other;

Query Match 3.0%; Score 67.6; DB 3; Length 575;  
Best Local Similarity 66.0%; Pred. NO. 8.5e-05;  
Matches 97; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

Qy 2096 ACATAATCATTCACCAATGATCGCTTTCCTTTACCACTCTTCCCTTTATCTTATTA 2155  
Db 415 ACCTTACCTTATGCGCTTCTTCACTGATTTAATCTGTATCTCTTTCACCTGTAATA 474  
Qy 2156 ATAAAAATGTTGGTCTCCACCACTGCTCCCAAAAAA 2215  
Db 475 AACTGTAATGATGAGTGCAACACTTAAAAA 534  
Qy 2216 AAAAAA 2242  
Db 535 AAAAAA 561

RESULT 224

ABZ73430  
ID ABZ73430 standard; cDNA; 575 BP.

XX AC ABZ73430;

XX 12-MAY-2003 (first entry)

XX Secreted protein-encoding gene 150 cDNA clone HHGCS78, SEQ ID NO:160.

XX Human; secreted protein; cancer; tumour; hyperproliferative disorder;  
XX autoimmune disorder; inflammation; angiogenic diseases; AIDS;  
XX acquired immunodeficiency syndrome; hepatitis; anaemia; wound healing;  
XX drug screening; chromosome identification; chromosome mapping;  
XX cytostatic; gene therapy; antineoplastic; immunomodulator; anti-HIV;  
XX antianaemic; vulnery; chromosome 17q11.1; gene; ss.

XX Homo sapiens.

XX WO200277013-A2.

XX 03-OCT-2002.

XX 26-MAR-2002; 2002WO-US009370.

XX 27-MAR-2001; 2001US-0278650P.

XX 12-SEP-2001; 2001US-00950082.

XX 12-SEP-2001; 2001US-00950083.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Rosen CA, Ruben SM;

XX WPI; 2003-040578/03.

XX P-PSDB; ABR01096.

XX New human secreted proteins and nucleic acids, useful for detecting or  
XX treating cancer or other hyperproliferative disorders, autoimmune  
XX disorders, inflammatory disorders, HIV disease, hepatitis or anemia.

XX Claim 21; Page 1241; 2474pp; English.

XX ABZ73281-ABZ73697 represent cDNAs corresponding to 391 human secreted  
XX protein genes, and ABP00947-ABP01363 represent the proteins they encode.  
XX ABZ73698-ABZ74687 represent human secreted protein genomic fragments. The  
XX invention also encompasses antibodies specific for the secreted proteins,

CC the use of the secreted proteins in drug screening and recombinant  
CC vectors and host cells comprising a nucleic acid of the invention. The  
CC secreted proteins are thought to be involved in biological activities  
CC associated with cellular signalling, cellular differentiation, cell  
CC migration, prohormone activation and neurotransmitter activity. The  
CC secreted proteins, nucleic acids encoding them, antibodies or antibody  
CC fragments specific for the secreted proteins, and modulators of protein  
CC activity are useful for diagnosing or treating cancers or other  
CC hyperproliferative disorders. Additionally, the secreted proteins and  
CC their nucleic acids may also be used in the treatment of autoimmune  
CC disorders, inflammatory disorders, diseases involving angiogenesis, AIDS  
CC (acquired immunodeficiency syndrome), hepatitis, anaemia, and to promote  
CC wound healing. Nucleic acids of the invention may be used for chromosome  
CC identification, chromosome mapping, in gene therapy, for identifying  
CC individuals from minute biological samples, as hybridisation probes, and  
CC as molecular weight markers. The present sequence represents a human  
CC secreted protein-encoding cDNA clone of the invention  
XX

Sequence 575 BP; 200 A; 106 C; 119 G; 150 T; 0 U; 0 Other;

Query Match 3.0%; Score 67.6; DB 8; Length 575;  
Best Local Similarity 66.0%; Pred. No. 8.5e-05;  
Matches 97; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

Qy 2096 ACATAATCATTCACCAATGATCGCTTTCCTTTACCACTCTTCCCTTTATCTTATTA 2155  
Db 415 ACCTTACCTTATGCGCTTCTTCACTGATTTAATCTGTATCTCTTTCACCTGTAATA 474  
Qy 2156 ATAAAAATGTTGGTCTCCACCACTGCTCCCAAAAAA 2215  
Db 475 AACTGTAATGATGAGTGCAACACTTAAAAA 534  
Qy 2216 AAAAAA 2242  
Db 535 AAAAAA 561

RESULT 225

ADA97993

ID ADA97993 standard; cDNA; 575 BP.

XX ADA97993;

XX 20-NOV-2003 (first entry)

XX Human secreted protein cDNA sequence #87.

XX human; secreted protein; cardiovascular disorder; arrhythmia;  
XX atherosclerosis; stroke; endocarditis; congestive heart failure;  
XX rheumatic heart disease; cardiomyopathy; haemorrhoids; varicose veins;  
XX migraine; thrombosis; neural disorder; immune system disorder;  
XX muscular disorder; reproductive disorder; gastrointestinal disorder;  
XX pulmonary disorder; renal disorder; proliferative disorder; cancer; gene;  
XX ss.

XX Homo sapiens.

XX WO2003004623-A2.

XX 16-JAN-2003.

XX 26-MAR-2002; 2002WO-US009922.

XX 27-MAR-2001; 2001US-0278650P.

XX 12-SEP-2001; 2001US-00950082.

XX 12-SEP-2001; 2001US-00950083.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Rosen CA, Ruben SM;

XX WPI; 2003-247946/24.

PT New human secreted polypeptide and nucleic acid molecules, useful for  
PT diagnosing, preventing, prognosticating or treating cardiovascular  
PT disorders (e.g. arrhythmia, atherosclerosis, cardiomyopathy, or  
PT thrombosis).  
XX  
XX  
XX Claim 1; SEQ ID NO 97; 1572pp; English.  
XX  
XX The invention comprises the amino acid and coding sequence of human  
CC secreted proteins. The DNA and protein sequences of the invention are  
CC useful in the treatment of cardiovascular disorders, such as: arrhythmia,  
CC atherosclerosis, stroke, endocarditis, congestive heart failure,  
CC rheumatic heart disease, cardiomyopathy, haemorrhoids, varicose veins,  
CC migraine, or thrombosis. The DNA and protein sequences may also be used  
CC for treating or preventing: neural disorders, immune system disorders,  
CC muscular disorders, reproductive disorders, gastrointestinal disorders,  
CC pulmonary disorders, renal disorders, proliferative disorders and/or  
CC cancerous diseases. The present cDNA sequence encodes a human secreted  
CC protein of the invention. NOTE: The present sequence is shown on the WIFO  
XX website.  
XX  
XX SQ Sequence 575 BP; 200 A; 106 C; 119 G; 150 T; 0 U; 0 Other;  
Query Match 3.0%; Score 67.6; DB 8; Length 575;  
Best Local Similarity 66.0%; Pred. No. 8.5e-05;  
Matches 97; Conservative 0; Mismatches 50; Indels 0; Gaps 0;  
QY 2096 ACATAATCATTCATCCAAATGATGCGCTTTGCTTTTACCACTCTTCTCTTTTATCTATTATTA 2155  
DB 415 ACCTTACCTTATGTGCGCTTTCTTCTTCAATGCTGATTTTAACTGCTATCTCTTCTCACTGTAATA 474  
QY 2156 ATAAATATGTTGGTCTCCACACGCTGCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2215  
DB 475 AACTGTAACTATGAGTGCAACACTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 534  
QY 2216 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242  
DB 535 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 561  
RESULT 226  
ADA43897  
ID ADA43897 standard; cDNA; 575 BP.  
XX  
XX AC ADA43897;  
XX  
XX DT 20-NOV-2003 (first entry)  
XX  
XX DE Human secreted protein cDNA SEQ ID 85.  
XX  
XX KW Gene therapy; human; Antidiabetic; Anorectic; Ophthalmological;  
KW Neuroprotective; Cerebroprotective; Antianemic; gene; ss.  
XX  
XX OS Homo sapiens.  
XX  
XX PN WO2003000865-A2.  
XX  
XX PD 03-JAN-2003.  
XX  
XX PF 26-MAR-2002; 2002WO-US0009105.  
XX  
XX PR 27-MAR-2001; 2001US-0278650P.  
XX  
XX PR 12-SEP-2001; 2001US-00950082.  
XX  
XX PR 12-SEP-2001; 2001US-00950083.  
XX  
XX PA (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX PI Rosen CA, Ruben SM;  
XX  
XX DR WPI; 2003-184045/18.  
XX  
XX DR P-PSDB; ADA44088.  
XX  
XX PT A human secreted protein and nucleic acids useful for preparing a  
PT diagnostic or pharmaceutical composition for diagnosing or treating

PT diabetes or conditions related to diabetes, e.g. hyperglycemia, obesity,  
PT retinopathy, neuropathy.  
XX  
XX PS Claim 7; SEQ ID NO 85; 701pp; English.  
XX  
XX CC The invention relates to novel genes and their fragments which are useful  
CC for preventing, treating or ameliorating medical conditions e.g. by  
CC protein or gene therapy. The genes are isolated from a range of human  
CC tissues disclosed in the specification. The nucleic acids and proteins  
CC are useful in the diagnosis, treatment and prevention of conditions  
CC related to diabetes, e.g. hyperglycaemia, obesity, retinopathy,  
CC polynuropathy, atherosclerosis, anaemia, stroke, gangrene, impotence,  
CC infection, cataract, renal disorders, or endocrine disorders. The present  
CC sequence was used to illustrate the invention.  
XX  
XX SQ Sequence 575 BP; 200 A; 106 C; 119 G; 150 T; 0 U; 0 Other;  
Query Match 3.0%; Score 67.6; DB 8; Length 575;  
Best Local Similarity 66.0%; Pred. No. 8.5e-05;  
Matches 97; Conservative 0; Mismatches 50; Indels 0; Gaps 0;  
QY 2096 ACATAATCATTCATCCAAATGATGCGCTTTGCTTTTACCACTCTTCTCTTTTATCTATTATTA 2155  
DB 415 ACCTTACCTTATGTGCGCTTTCTTCTTCAATGCTGATTTTAACTGCTATCTCTTCTCACTGTAATA 474  
QY 2156 ATAAATATGTTGGTCTCCACACGCTGCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2215  
DB 475 AACTGTAACTATGAGTGCAACACTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 534  
QY 2216 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242  
DB 535 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 561  
RESULT 227  
ADC20156  
ID ADC20156 standard; DNA; 575 BP.  
XX  
XX AC ADC20156;  
XX  
XX DT 18-DEC-2003 (first entry)  
XX  
XX DE Human secreted protein coding sequence #95.  
XX  
XX KW gene therapy; human; secreted protein; haemopoietic disorder;  
KW haematological disorder; anaemia; haemophilia; inflammatory disorder;  
KW inflammatory bowel disease; Crohn's disease; neoplastic disease; cancer;  
KW leukaemia; wound healing; epithelial cell proliferation disorder;  
KW immune disorder; autoimmune disorder; asthmatic disorder;  
KW cardiovascular disorder; atherosclerosis; myocarditis;  
KW infectious disease; HIV; AIDS; endocrine disorder; diabetes;  
KW gastrointestinal disorder; duodenal ulcer; gastroenteritis; gene; ds.  
XX  
XX OS Homo sapiens.  
XX  
XX PN WO200292787-A2.  
XX  
XX PD 21-NOV-2002.  
XX  
XX PF 26-MAR-2002; 2002WO-US0009257.  
XX  
XX PR 27-MAR-2001; 2001US-0278650P.  
XX  
XX PR 12-SEP-2001; 2001US-00950082.  
XX  
XX PR 12-SEP-2001; 2001US-00950083.  
XX  
XX PA (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX PI Rosen CA, Ruben SM;  
XX  
XX XX WPI; 2003-129287/12.  
XX  
XX PT New human secreted proteins and nucleic acid molecules, useful for  
PT preparing a diagnostic or pharmaceutical composition for diagnosing,

PT preventing or treating hematopoietic or hematologic disorders, e.g.  
 XX anemia or hemophilia.  
 PS Claim 1; SEQ ID NO 105; 1512pp; English.  
 XX  
 CC The invention comprises the amino acid and coding sequences of human  
 CC secreted proteins. The DNA and protein sequences of the invention are  
 CC useful for detecting, preventing, diagnosing, prognosticating, treating  
 CC or ameliorating: haematopoietic or haematological disorders (e.g. anaemia  
 CC and haemophilia); inflammatory disorders (e.g. inflammatory bowel disease  
 CC and Crohn's disease); neoplastic disease (e.g. cancer and leukaemia);  
 CC wound healing and disorders of epithelial cell proliferation; immune  
 CC disorders (e.g. autoimmune disorders and asthmatic disorders);  
 CC cardiovascular disorders (e.g. atherosclerosis and myocarditis);  
 CC infectious disease (e.g. HIV/AIDS); endocrine disorders (e.g. diabetes);  
 CC and gastrointestinal disorders (e.g. duodenal ulcers and  
 CC gastroenteritis). The present DNA sequence encodes a human secreted  
 CC protein of the invention.  
 XX  
 SQ Sequence 575 BP; 200 A; 106 C; 119 G; 150 T; 0 U; 0 Other;  
 Query Match 3.0%; Score 67.6; DB 10; Length 575;  
 Best Local Similarity 66.0%; Pred. No. 8.5e-05;  
 Matches 97; Conservative 0; Mismatches 50; Indels 0; Gaps 0;  
 Qy 2096 ACATAATCATTCCTCCATCCATGATGCGCTTTGCTTTACCACTCTTTCTCTTTTATCTTATTA 2155  
 Db 415 ACCTTACCTTATGCGCTTTCTTCATTCGCTGATTTTAACTGCTATCTCTTTTCTCTGTAATA 474  
 Qy 2156 ATAAATAATGTTGGTCTCCACACGCTGCTCCCAAAAAA 2242  
 Db 475 AACTGTAACCTATGAGTGCACACTTAAAAA 534  
 Qy 2216 AAAAAA 2242  
 Db 535 AAAAAA 561  
 RESULT 228  
 ADF10596  
 ID ADF10596 standard; DNA; 575 BP.  
 XX  
 AC ADF10596;  
 XX  
 DT 12-FEB-2004 (first entry)  
 XX  
 DE Human secreted protein encoding sequence #49.  
 XX  
 KW H6EDM64; HBHAA05; HBUCR46; HBUCD16; HCMX51; HCQBH72; HDPQ30; HE2CM99;  
 KW HE9EA10; HGBHP91; HLDQU79; Cytostatic; Hepatotrophic; Antidiabetic;  
 KW Antiinflammatory; neuroprotective; Anti-HIV; Vulnerary; Gynecological;  
 KW Antifertility; Gene therapy; gastrointestinal disorder; cancer;  
 KW Alzheimer's disease; chromosome identification; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO200299085-A2.  
 XX  
 XX 12-DEC-2002.  
 XX  
 XX 26-MAR-2002; 2002WO-US009135.  
 XX  
 XX 27-MAR-2001; 2001US-0278650P.  
 XX  
 XX 12-SEP-2001; 2001US-00950082.  
 XX  
 XX 12-SEP-2001; 2001US-00950083.  
 XX  
 XX (HUMA-) HUMAN GENOME SCI INC.  
 XX  
 XX Rosen CA, Ruben SM;  
 XX  
 XX WPI; 2003-221310/21.  
 XX  
 XX New human secreted polypeptides for diagnosing and treating neural,

PT immune system, muscular, reproductive, gastrointestinal, cardiovascular,  
 XX renal, and proliferative disorders and cancerous diseases.  
 PS Claim 7; SEQ ID NO 59; 855pp; English.  
 XX  
 CC The present invention relates to an isolated polypeptide chosen from 123  
 CC human secreted proteins, such as, H6EDM64, HBHAA05, HBUCR46, HBUCD16,  
 CC HCMX51, HCQBH72, HDPQ30, HE2CM99, HGBHP91 and HLDQU79. The  
 CC polypeptides are useful for the preparation of a diagnostic or  
 CC pharmaceutical composition for diagnosing or and are useful for treating  
 CC or preventing diseases or conditions, such as neural, immune system,  
 CC muscular, reproductive, gastrointestinal, pulmonary, cardiovascular,  
 CC renal, proliferative disorders and cancerous diseases and conditions. The  
 CC polypeptides have immune activity, chemotactic activity, and binding  
 CC activity to treat and prevent neuronal damage which occurs in certain  
 CC neuronal disorders or neuro-degenerative conditions such as Alzheimer's  
 CC disease, Parkinson's disease, and acquired immunodeficiency syndrome  
 CC (AIDS)-related complex, and to prevent skin aging due to sunburn by  
 CC stimulating keratinocyte growth. The molecules are also useful to  
 CC modulate mammalian characteristics including .The encoding sequences are  
 CC useful for chromosome identification, radiation hybrid mapping, in gene  
 CC therapy, for identifying individuals from minute biological samples, as  
 CC additional DNA markers for restriction fragment length polymorphism  
 CC (RFLP), in forensic biology, molecular weight markers on Southern gels,  
 CC as diagnostic probes for the presence of a specific mRNA in a particular  
 CC cell type, to raise anti-DNA antibodies using DNA immunization  
 CC techniques, and as an antigen to elicit an immune response. The present  
 CC sequence represents a human secreted protein encoding sequence of the  
 CC invention.  
 XX  
 SQ Sequence 575 BP; 200 A; 106 C; 119 G; 150 T; 0 U; 0 Other;  
 Query Match 3.0%; Score 67.6; DB 10; Length 575;  
 Best Local Similarity 66.0%; Pred. No. 8.5e-05;  
 Matches 97; Conservative 0; Mismatches 50; Indels 0; Gaps 0;  
 Qy 2096 ACATAATCATTCCTCCATCCATGATGCGCTTTGCTTTACCACTCTTTCTCTTTTATCTTATTA 2155  
 Db 415 ACCTTACCTTATGCGCTTTCTTCATTCGCTGATTTTAACTGCTATCTCTTTTCTCTGTAATA 474  
 Qy 2156 ATAAATAATGTTGGTCTCCACACGCTGCTCCCAAAAAA 2242  
 Db 475 AACTGTAACCTATGAGTGCACACTTAAAAA 534  
 Qy 2216 AAAAAA 2242  
 Db 535 AAAAAA 561  
 RESULT 229  
 ABZ67037  
 ID ABZ67037 standard; cDNA; 575 BP.  
 XX  
 AC ABZ67037;  
 XX  
 DT 26-MAR-2003 (first entry)  
 XX  
 DE Human secreted protein encoding cDNA SEQ ID NO 157.  
 XX  
 KW Human; secreted protein; nootropic; neuroprotective; cytostatic;  
 KW virucide; dermatological; immunosuppressive; antiinflammatory; anti-HIV;  
 KW vulnerary; antibacterial; antiparkinsonian; antickling; antianaemic;  
 KW antiarthritic; cancer; antirheumatic; hepatotropic; cerbroprotective;  
 KW antiinflammatory; antiallergic; antidiabetic; antiulcer; anticonvulsant;  
 KW antifungal; antiparasitic; cardiant; immune disorder; infection; vaccine;  
 KW cardiovascular disorder; neurological disease; nephrotropic;  
 KW gene therapy; gene; chromosome 17q11.1; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO200277186-A2.  
 XX  
 XX 03-OCT-2002.



XX ACN51300;  
XX 02-DEC-2004 (first entry)  
XX Cotton androecium tissue EST Clone ID: LIB3828-014-Q1-N6-C2, SEQ:6081.  
XX Cotton; plant; EST; expressed sequence tag; transgenic plant; androecium;  
XX variety Nucotton33B; library LIB3828; molecular tag; molecular marker;  
XX genetic mapping; molecular mapping; seed germination; plant growth;  
XX plant quality; plant yield; plant breeding; tissue printing; ss.  
XX Gossypium hirsutum.  
XX US2004123340-A1.  
XX 24-JUN-2004.  
XX 12-DEC-2001; 2001US-00021323.  
XX 14-DEC-2000; 2000US-0255619P.  
XX (DEIK/) DEIKMAN J.  
XX (FENG/) FENG P C C.  
XX (FINC/) FINCHER K L.  
XX (ZIEG/) ZIEGLER T E.  
XX Deikman J, Feng PCC, Fincher KL, Ziegler TE;  
XX WPI; 2004-479808/45.  
XX New isolated nucleic acid molecule that encodes a plant protein or its  
XX fragment, useful for isolating a variety of agronomically significant  
XX genes associated with plant growth, quality or yield, and as molecular  
XX tags to map genes.  
XX Claim 1; SEQ ID NO 6081; 34pp; English.  
XX The invention relates to 17880 cotton expressed sequence tags (ESTs;  
XX ACN45220-ACN3099). The ESTs were isolated from cDNA libraries generated  
XX from primed or non-primed seeds from variety DP50B, mature seeds from  
XX variety Coker 312 Boswell 96 Field, and androecium tissue, gynoecium  
XX tissue, developing fibres, carpel walls and septa from variety  
XX Nucotton33B. The invention also relates to substantially purified  
XX proteins or their fragments encoded by nucleic acid molecules of the  
XX invention, and to transformed plants having a nucleic acid construct  
XX comprising a nucleic acid of the invention. The cotton ESTs are useful as  
XX molecular tags to isolate genetic regions, to isolate genes, to map  
XX genes, to determine gene function and to determine whether genes are  
XX members of a particular gene family. The nucleic acid molecules may be  
XX used for isolating a variety of agronomically significant genes  
XX associated with plant growth, quality, yield, and could also serve as  
XX links in metabolic and catabolic pathways. The nucleic acid molecules are  
XX also useful for identifying genes important in initiating and maintaining  
XX seed germination or that may be used to mitigate stresses encountered  
XX during seed germination. The ESTs additionally enable the acquisition of  
XX promoters and cis-regulatory elements which will be useful to express  
XX agronomically significant genes in these tissues and/or other tissues,  
XX and also permits the acquisition of molecular markers useful in breeding  
XX schemes, genetic and molecular mapping, and in cloning of agronomically  
XX significant genes. The nucleic acid molecules are further useful for  
XX detecting the expression level or pattern of a protein or mRNA and for  
XX detecting the presence or quantity of a protein by tissue printing. The  
XX present sequence represents a specifically claimed EST isolated from a  
XX cotton variety Nucotton33B androecium tissue cDNA library (LIB3828). The  
XX sequence data for this patent did not form part of the printed  
XX specification, but was obtained in electronic format directly from the US  
XX patent office at seqdata.uspto.gov/sequence.html?docID=US20040123340  
XX  
XX Sequence 583 BP; 190 A; 30 C; 160 G; 203 T; 0 U; 0 Other;  
Query Match 3.0%; Score 67.6; DB 13; Length 583;  
Best Local Similarity 66.0%; Pred. No. 8.5e-05;

Matches 97; Conservative 0; Mismatches 50; Indels 0; Gaps 0;  
QY 2096 ACATAATCATTCATCCATCAATGATCGCTTTCCTTTACCACTCTTCTTATCTTATTA 2155  
DB 211 AAAAAAAAAATTTCCCTCTTTTTCCTCTTTTTCCTCTTTTTCCTCTTTTTCCTCTTTT 152  
QY 2156 ATAAAAATGTTGGTCTCCACCACTGCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAA 2215  
DB 151 AA 92  
QY 2216 AA 2242  
DB 91 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 65  
RESULT 232  
AAH33168  
ID AAH33168 standard; cDNA; 896 BP.  
AC AAH33168;  
DT 03-SEP-2001 (first entry)  
DE Human colon cancer antigen encoding cDNA SEQ ID NO:224.  
XX Human; colon cancer; colon cancer antigen; diagnosis; detection;  
XX colorectal carcinoma; ss.  
XX Homo sapiens.  
XX WO200122920-A2.  
PD 05-APR-2001.  
PF 28-SEP-2000; 2000WO-US026524.  
PR 29-SEP-1999; 99US-0157137P.  
PR 03-NOV-1999; 99US-0163280P.  
XX (HUMA-) HUMAN GENOME SCI INC.  
PA Ruben SM, Barash SC, Birse CE, Rosen CA;  
XX WPI; 2001-235357/24.  
DR P-FSDE; AAG73737.  
XX Nucleic acids encoding 4277 human colon cancer-associated polypeptides,  
XX useful for preventing, diagnosing and/or treating colorectal cancers.  
XX Claim 1; Page 2364; 9803pp; English.  
XX AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon  
XX cancer-associated nucleic acid molecules (N) and proteins (P), where the  
XX proteins are collectively known as colon cancer antigens. The colon  
XX cancer antigens have cytostatic activity and can be used in gene therapy  
XX and vaccine production. N and P may be used in the prevention, diagnosis  
XX and treatment of diseases associated with inappropriate P expression. For  
XX example, N and P may be used to treat disorders associated with decreased  
XX expression by rectifying mutations or deletions in a patient's genome  
XX that affect the activity of P by expressing inactive proteins or to  
XX supplement the patient's own production of P. Additionally, N may be used  
XX to produce the colon cancer-associated Ps, by inserting the nucleic acids  
XX into a host cell and culturing the cell to express the proteins. N and P  
XX can be used in the prevention, diagnosis and treatment of colorectal  
XX carcinomas and cancers. AAH37196 to AAH37204 and AAG77789 represent  
XX sequences used in the exemplification of the present invention. N.B.  
XX Pages 666 to 682 and page 7053 of the sequence listing were missing at  
XX time of publication, meaning no sequences are present for SEQ ID NO:1027  
XX to 1052, 7921 and 7922  
XX  
XX Sequence 896 BP; 351 A; 161 C; 159 G; 222 T; 0 U; 3 Other;  
Query Match 3.0%; Score 67.6; DB 4; Length 896;

The invention relates to human tumour-associated antigenic target (TAT) polypeptides, and their related nucleic acids. The TAT polypeptides are overexpressed in cancer tissues compared to normal tissues, and may thus serve as effective targets for the diagnosis and treatment of cancer in mammals. The invention also relates to nucleic acid and polypeptide sequences at least 80% identical to the TAT nucleic acids and polypeptides; expression vectors and host cells comprising a TAT nucleic acid; an antibody specific for a TAT polypeptide; a peptide or organic molecule which binds to a TAT polypeptide; fusion proteins comprising a TAT polypeptide; and methods and compositions for the treatment or diagnosis of cancer in mammals. TAT polypeptides, nucleic acids, antibodies, antagonists, binding molecules and compositions are useful for diagnosing or treating a cell proliferative disorder associated with increased TAT expression, particularly cancers such as breast cancer, colorectal cancer, lung cancer, ovarian cancer, liver cancer, bladder cancer, pancreatic cancer, cervical cancer, cancers of the central nervous system, melanoma and leukaemia. TAT nucleic acids may further be used as hybridisation probes, in chromosome and gene mapping, in chromosome identification and in gene therapy. The present sequence



CC disorders, muscular disorders, reproductive disorders, gastrointestinal  
CC disorders, wounds, renal disorders, infectious diseases, and  
CC cardiovascular disorders. AAC98764 to AAC98772 and AB54007 represent  
CC sequences used in the exemplification of the present invention

SQ	Sequence	1639 BP; 410 A; 398 C; 357 G; 469 T; 0 U; 5 Other;
	Query Match	3.0%; Score 67.6; DB 3; Length 1639;
	Best Local Similarity	73.9%; Pred. No. 0.00012;
	Matches	85; Conservative 0; Mismatches 30; Indels 0; Gaps 0;
Qy	2128	TTTACCACTCTTTCCCTTTTATCTATTATAAATAAAATGTGGTCTCCACCACCTGNCCTCCA 2187 
Dd	1510	TTTATGAGTCTCAAAGTTTTATTATTGCCAATAAAAAGTGCTTTTATGC CGCGCTTTCTTCTCAAAA 1569
Qy	2188	AA 2242 
Dd	1570	AA 1624 

RESULT 235  
AAV63192  
ID AAV63192 standard; cDNA; 3899 BP.

XX	AAV63192;	
XX		
DT	25-MAR-2003	(revised)
DT	13-JAN-1999	(first entry)

DE cDNA from clone dt674\_2 which encodes a secreted protein.

XX Secreted protein; immune stimulating; suppressing;  
KW haematopoiesis regulating activity; tissue growth activity; activin;  
KW inhibin activity; chemotactic; chemokinetic activity; haemostatic;  
KW thrombolytic activity; anti-inflammatory activity; cadherin;  
KW tumour invasion suppressor activity; tumour inhibition activity; ds.

an	OS	Homo sapiens.
XX		
FH	Key	Location/Qualifiers
FT	CDS	40..1503
FT		/*tag= a

PN WO9844113-A1.  
XX  
PD 08-OCT-1998.

XX	27-MAR-1998;	98WO-US006176.
PF		
XX	28-MAR-1997;	97US-00823330.
PR	25-MAR-1998;	98US-00047661.
PR		

PA (GEMY ) GENETICS INST INC.  
XX  
PI Jacobs K, Mccoy JM, Lavallie ER, Racie LA, Merberg D, Treacy M;  
PI Spaulding V, Agostino MJ;

DR WPI; 1998-542703/46.  
DR P-ESDB; AAW80408.

New isolated polynucleotide(s) and secreted proteins - are obtained from human cDNA libraries prepared from adult testes, foetal brain, adult brain, adult blood and placenta.

Claim 22; Page 77-80; 124pp; English.

CC activity, cadherin/tumour invasion suppressor activity, tumour inhibition  
CC activity or other activities. (Updated on 25-MAR-2003 to correct PR  
CC field.)

Sequence 3899 BP; 1283 A; 716 C; 895 G; 999 T; 0 U; 6 Other;

Query Match	3.0%	Score 67.6;	DB 2;	Length 3899;
Best Local Similarity	76.6%;	Pred. No. 0.00015;		
Matches	82;	Conservative	0;	Mismatches 25;
				Indels 0;
				Gaps 0;

Qy 2136 TCCTTCCTTTTATCTTATTATAAATAATGTTGGTCTCCACCACTGNGCTCCCAAAAAA 2195

[illegible]

Db  
3805 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3851

RESULT 236  
ABQ92042  
ID ABQ92042 standard; cDNA; 3899 BP.

XX	
AC	ABQ92042;
XX	
DT	04-OCT-2002 (first entry)

XX DE Human polynucleotide SEQ ID NO 39.

KW Human; cytostatic; antirheumatic; antiarthritic; vulnery; analgesic;  
 KW antiinflammatory; antibacterial; immunosuppressive; antiparkinsonian;  
 KW neuroprotective; nontropic; osteopathic; haemostatic; vasotropic;  
 KW anticulcer; fungicide; antidiabetic; antiasthmatic; anti allergic;  
 KW immunostimulant; antiparasitic; secreted protein; transmembrane protein;  
 KW cytokine; cell proliferation; cell differentiation; autoimmune disease;  
 KW stem cell; growth factor; nervous system disease; neuropathy;  
 KW Alzheimer's disease; Parkinson's disease; Huntington's disease;  
 KW osteoporosis; severe combined immunodeficiency; SCID; infection;  
 KW multiple sclerosis; rheumatoid arthritis; gene therapy; gene ss.

OS Homo sapiens.  
XX  
PN US2002065394-A1.  
XX  
PD 30-MAY-2002.

PF 22-DEC-2000; 2000US-00745763.

PR 18-MAR-1998; 98US-00040963.

PA	(JACO/)	JACOBS K.
PA	(MCCO/)	MCCOY J M.
PA	(LAVA/)	LAVALLIE E R.
PA	(COLL/)	COLLINS-RACIE L A.
PA	(EVAN/)	EVANS C.
PA	(MERB/)	MERBERG D.
PA	(TREA/)	TREACY M.
PA	(SPAU/)	SPAULDING V.

AA Jacobs K, McCooy JM, Lavallie ER, Collins-Racie LA, Evans C;  
PI Merberg D, Treacy M, Spaulding V;  
PI Treacy M, Spaulding V;

XX  
DR WPI; 2002-582343/62.  
DR P-PSDB: ABP61826.

Novel secreted or transmembrane protein and polynucleotide encoding the protein, useful for diagnosis and treatment of neurological disorders, cancer, autoimmune diseases, bone disorders and lung or liver fibrosis.

Disclosure: Page 159-161: 284pp: English.

XX The invention relates to human secreted or transmembrane protein (I),  
CC their fragments and is encoded by specific complementary deoxyribonucleic  
CC acid (II).



DR WPI; 2001-662795/76.

XX Novel isolated nucleic acid molecule associated with cancerous state of

PT prostate cells and correlating with presence of prostate cancer, useful

PT for detecting presence of prostate cancer, stage of prostate cancer.

XX

XX Claim 1; Page 10934; 11750pp; English.

PS

CC The invention relates to an isolated nucleic acid molecule (I) comprising

CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the

CC specification or its complement. (I) is useful for: (a) assessing whether

CC a patient is afflicted with prostate cancer; (b) monitoring the

CC progression of prostate cancer in a patient; (c) assessing the efficacy

CC of a test compound to inhibit prostate cancer in a patient; (d) assessing

CC the efficacy of a therapy for inhibiting prostate cancer in a patient;

CC (e) selecting a composition for inhibiting prostate cancer in a patient;

CC (f) assessing the prostate cell carcinogenic potential of a compound; (g)

CC determining whether prostate cancer has metastasized in a patient; (h)

CC assessing the aggressiveness or indolence of prostate cancer in a patient

CC ; (I) is also useful as a pharmacodynamic or pharmacogenomic marker

XX

XX Sequence 453 BP; 195 A; 131 C; 81 G; 46 T; 0 U; 0 Other;

SQ

Query Match 3.0%; Score 67.4; DB 5; Length 453;

Best Local Similarity 68.7%; Pred. No. 8.7e-05;

Matches 92; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

Qy 2109 ATCCAAATGATCGCCTTGGCTTTTACCACTCTTCTTCTTATTAATAAATGTTGG 2168

Db 47 ATCAATATATACCGTATCTACTTTAGAAATGCTCAGTTGCTTTTATTAATAAATGTTGA 106

Qy 2169 TCTCCACCACTGCTGCCAAAAAATAAATAAATAAATAAATAAATAAATAAATAA 2228

Db 107 TGGTTTGAAATTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 166

Qy 2229 AAAAAAATAAATAA 2242

Db 167 AAAAAAATAAATAA 180

RESULT 239

AAH70126/c

ID AAH70126 standard; cDNA; 545 BP.

XX

XX AAH70126;

AC

DT 19-SEP-2001 (first entry)

XX

XX Human cervical cancer marker nucleic acid 1400.

XX

XX Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.

XX

XX Homo sapiens.

XX

XX WO200142467-A2.

XX

XX 14-JUN-2001.

XX

XX 08-DEC-2000; 2000WO-US033312.

XX

XX 08-DEC-1999; 99US-0169681P.

XX

XX 21-DEC-1999; 99US-0171350P.

XX

XX 14-MAR-2000; 2000US-0189315P.

XX

XX 12-MAY-2000; 2000US-0203791P.

XX

XX 09-JUN-2000; 2000US-0210600P.

XX

XX 21-JUL-2000; 2000US-0220114P.

XX

XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

XX

XX Schlegel R, Deeds J, Berger A, Zhao X;

XX

XX WPI; 2001-375006/39.

XX

PT New isolated nucleic acid for diagnosing and treating cervical cancer and

XX for assessing and detecting compounds for treating the cancer.

PS Claim 1; Page 319-320; 1051pp; English.

XX

CC The invention relates to novel genes (AAH68727-AAH73383) associated with

CC cervical cancer with cytostatic activity. The nucleic acids and encoded

CC polypeptides are useful: to assess if a patient is afflicted with

CC cervical cancer or has a pre-malignant condition; to monitor the

CC progression of cervical cancer or a premalignant condition in a patient;

CC and to select and/or assess the efficacy of a compound or therapy for

CC inhibiting cervical cancer in a patient. The nucleic acids may also be

XX useful for gene therapy

XX

SQ Sequence 545 BP; 200 A; 40 C; 23 G; 209 T; 0 U; 73 Other;

Query Match 3.0%; Score 67.4; DB 4; Length 545;

Best Local Similarity 55.1%; Pred. No. 9.2e-05;

Matches 98; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

Qy 2065 TTGCTTTCTAGTCTCAAGTCTCGTGACACATAATCATTCATCAATGATCGCCTT 2124

Db 275 TTNCCCTNNNANNTTNNNATNTTTTTTTTTTTTGTGNAATTTTTTCCCCCAANTTTTTTTT 216

Qy 2125 TGCTTTTACCACTCTTCTTTTATCTTATTAATAAATAATGTTGCTCCACCACTGCTC 2184

Db 215 NNNNTTTTTTTTNNNTTNTTNAANTTTTTTTTNNAAAAAANTTTTTTTTNAANTTTTTT 156

Qy 2185 CCAAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 2242

Db 155 NAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA 98

RESULT 240

ACN87636/c

ID ACN87636 standard; DNA; 637 BP.

XX

XX ACN87636;

AC

DT 02-DEC-2004 (first entry)

XX

XX Breast cancer related marker, seq id 8786.

DE

XX Cancer; breast; tumour; cytostatic; marker; detection; therapy; ds.

KW

XX Homo sapiens.

OS

XX US2003099974-A1.

XX

XX 29-MAY-2003.

XX

XX 18-JUL-2002; 2002US-00198846.

XX

XX 18-JUL-2001; 2001US-0306220P.

XX

XX (MILL-) MILLENNIUM PHARM INC.

XX

XX Lillie J, Xu Y, Wang Y, Steinmann K;

XX

XX WPI; 2003-787014/74.

XX

XX Novel isolated polypeptide associated with breast cancer, useful for

XX detecting presence of polypeptide in sample, as a marker for breast

XX cancer.

XX

XX Disclosure; SEQ ID NO 8786; 36pp; English.

XX

XX The invention relates to an isolated polypeptide (I) associated with

XX breast cancer which is encoded by a nucleic acid molecule comprising a

XX nucleotide sequence (SI). Further disclosed is an antibody that binds to

XX the polypeptide of the invention. The activity of the polypeptide of the

XX invention may be described as cytostatic. The antibody is useful for

XX detecting the presence of (I) in a sample. Nucleic acid molecules of the

XX



```
XX SQ Sequence 376 BP; 81 A; 121 C; 63 G; 111 T; 0 U; 0 Other;
Query Match 3.0%; Score 67.2; DB 5; Length 376;
Best Local Similarity 77.1%; Pred. No. 9.1e-05;
Matches 81; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 2138 TTTCCTTTTATCTTATTAATAAATGTTGGTCTCCACCACTGCTCCCAAAAAA 2197
D 149 TTTTCTTTTCTTTTGGGGAATAATGTTTTCCTCCCAAAAAA 90
QY 2198 AAAAAA 2242
D 89 AAAAAA 45

RESULT 243
AAI88639
ID AAI88639 standard; cDNA; 384 BP.
AC AAI88639;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human polynucleotide SEQ ID NO 8699.
XX
KW Human; cytokine; cell proliferation; cell differentiation; gene therapy;
KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
KW tissue growth factor; immunomodulatory; cancer; leukaemia;
KW nervous system disorders; arthritis; inflammation; ss.
XX
OS Homo sapiens.
XX
PN WO200164835-A2.
XX
PD 07-SEP-2001.
XX
PF 26-FEB-2001; 2001WO-US004927.
XX
PR 28-FEB-2000; 2000US-00515126.
XX
PR 18-MAY-2000; 2000US-00577409.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Drmanac RT;
XX
WPI; 2001-514838/56.
XX
P-PSDB; AAO08708.
XX
Isolated nucleic acids and polypeptides, useful for preventing diagnosing
and treating e.g. leukemia, inflammation and immune disorders.
XX
Claim 1; SEQ ID NO 8699; 1399pp + Sequence Listing; English.
XX
The invention relates to human polynucleotides (AAI79941-AAI93841) and
the encoded proteins (AAO00010-AAO13910) that exhibit activity relating to
cytokine, cell proliferation or cell differentiation or which may induce
production of other cytokines in other cell populations. The
polynucleotides and polypeptides are useful in gene therapy, vaccines or
peptide therapy. The polypeptides have various cytokine-like activities,
e.g. stem cell growth factor activity, haematopoiesis regulating
activity, tissue growth factor activity, immunomodulatory activity and
activin/inhibin activity and may be useful in the diagnosis and/or
treatment of cancer, leukaemia, nervous system disorders, arthritis and
inflammation. Note: The sequence data for this patent did not form part
of the printed specification, but was obtained in electronic format
directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 384 BP; 122 A; 82 C; 80 G; 86 T; 0 U; 14 Other;
Query Match 3.0%; Score 67.2; DB 4; Length 384;
Best Local Similarity 83.3%; Pred. No. 9.1e-05;
Matches 75; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
```

```
QY 2153 TTAATAAAATGTTGGTCTCCACCACTGCTCCCAAAAAA 2212
D 253 TTAACCAACCTGGGCTCCATGACTTTTCNAAAAA 312
QY 2213 AAAAAA 2242
D 313 AAAAAA 342

RESULT 244
AAI89019
ID AAI89019 standard; cDNA; 386 BP.
AC AAI89019;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human polynucleotide SEQ ID NO 9079.
XX
KW Human; cytokine; cell proliferation; cell differentiation; gene therapy;
KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
KW tissue growth factor; immunomodulatory; cancer; leukaemia;
KW nervous system disorders; arthritis; inflammation; ss.
XX
OS Homo sapiens.
XX
PN WO200164835-A2.
XX
PD 07-SEP-2001.
XX
PF 26-FEB-2001; 2001WO-US004927.
XX
PR 28-FEB-2000; 2000US-00515126.
XX
PR 18-MAY-2000; 2000US-00577409.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Drmanac RT;
XX
WPI; 2001-514838/56.
XX
P-PSDB; AAO09088.
XX
Isolated nucleic acids and polypeptides, useful for preventing diagnosing
and treating e.g. leukemia, inflammation and immune disorders.
XX
Claim 1; SEQ ID NO 9079; 1399pp + Sequence Listing; English.
XX
The invention relates to human polynucleotides (AAI79941-AAI93841) and
the encoded proteins (AAO00010-AAO13910) that exhibit activity relating to
cytokine, cell proliferation or cell differentiation or which may induce
production of other cytokines in other cell populations. The
polynucleotides and polypeptides are useful in gene therapy, vaccines or
peptide therapy. The polypeptides have various cytokine-like activities,
e.g. stem cell growth factor activity, haematopoiesis regulating
activity, tissue growth factor activity, immunomodulatory activity and
activin/inhibin activity and may be useful in the diagnosis and/or
treatment of cancer, leukaemia, nervous system disorders, arthritis and
inflammation. Note: The sequence data for this patent did not form part
of the printed specification, but was obtained in electronic format
directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 386 BP; 174 A; 58 C; 25 G; 129 T; 0 U; 0 Other;
Query Match 3.0%; Score 67.2; DB 4; Length 386;
Best Local Similarity 77.1%; Pred. No. 9.1e-05;
Matches 81; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 2138 TTTCCTTTTATCTTATTAATAAATGTTGGTCTCCACCACTGCTCCCAAAAAA 2197
D 223 TTATTTATATTTCTCTTAATAATAAAGTTCTTTTCACACCTCTCTAAAAA 282
QY 2198 AAAAAA 2242
```





203917, defined in the specification. The products of the invention have cytostatic, antiarthritic, antiasthmatic, immunosuppressive, neurotropic; antiarteriosclerotic, antiinflammatory, neuroprotective, antidiabetic, tranquiliser, vulnerary, antibacterial, antipsoriatic, antiarrhythmic, antic rheumatic, cardiant and anti-HIV activity. (I) or a nucleic acid (II) encoding (I) is useful for preventing, treating or ameliorating a medical condition and for diagnosing a pathological condition or susceptibility to the condition. (I) is useful for identifying a binding partner which affects the activity of the polypeptide and for identifying an activity in a biological sample. (II), (II) or an antibody (IV) specific to (I) is also useful for treating or preventing a disease, disorder or condition associated with aberrant expression of (I). Diseases treated or diagnosed include immune disorders such as autoimmune diseases, blood protein disorders, anemia, allergic reactions and conditions such as asthma, organ rejection or graft-versus-host disease, inflammation, hyper proliferative disorders, cardiovascular disorders such as arterioarterial fistula, arrhythmias, arteriosclerosis, coronary thrombosis, organ regeneration, cancer, neovascular glaucoma, diabetic retinopathy, rheumatoid arthritis, psoriasis, diseases associated with increased apoptosis that include acquired immunodeficiency syndrome (AIDS), neurological diseases such as Parkinson's disease, viral, bacterial, fungal or parasitic diseases. They are also used to repair, replace or protect tissue damage by congenital defects, to treat trauma, in surgery, including cosmetic plastic surgery, to treat fibrosis, reperfusion injury or systemic cytokine damage, to stimulate chondrocyte growth, to prevent skin aging due to sunburn, to change a mammal's mental state or physical state by influencing biohythms, cardiac rhythms, depression, memory, stress and for accelerating wound healing. (I), (II) and/or their agonist or antagonist are useful as food additives or preservatives to increase or decrease storage capabilities, fat content, lipid, protein, carbohydrate, vitamin, mineral or other nutritional components. (I) is useful for screening therapeutic compounds. (II) is useful in forensic biology for detecting DNA sequences and as diagnostic probes for detecting the presence of specific mRNA in a particular cell type

XX SQ Sequence 680 BP; 251 A; 97 C; 100 G; 232 T; 0 U; 0 Other;

Query Match 3.0%; Score 67.2; DB 3; Length 680;  
Best Local Similarity 66.2%; Pred. No. 0.00011;  
Matches 96; Conservative 0; Mismatches 49; Indels 0; Gaps 0;  
QY 2098 ATATCATTCATCCATGATGCTTTGCTTTACCACTCTTCCCTTTATCTTTATAT 2157  
DB 521 ATACTCTTAGTGTAGTAAAGCATGATTCATGTCATCTGCTTATATCAATATAT 580  
QY 2158 AAAAAATGTTGGTCTCCACCACTGCTCCCAAAAAA 2217  
DB 581 AACTATTTTCCAGAAAAA 640  
QY 2218 AAAAAA 2242  
DB 641 AAAAAA 665

RESULT 249  
AAC77999  
ID AAC77999 standard; cDNA; 749 BP.  
XX AC AAC77999;  
XX DT 08-FEB-2001 (first entry)  
XX DE Human cancer associated gene sequence SEQ ID NO:393.  
XX KW Human; cancer associated gene; cancer antigen; detection; cancer;  
KW diagnosis; cytostatic; proliferative; vulnerary; immunomodulator;  
KW antidiabetic; antiasthmatic; antirheumatic; antiarthritic; antiviral;  
KW antiinflammatory; antithyroid; antiallergic; antibacterial; cardiant;  
KW dermatological; neuroprotective; thrombolytic; coagulant; neurotropic;  
KW vasotropic; antipsoriatic; antiangiogenic; gene therapy; inflammation;  
KW immune disorder; haematopoietic cell disorder; autoimmune disorder;  
KW allergic reaction; graft versus host disease; organ rejection;  
KW haemostatic; thrombolytic; cardiovascular disorder; infection;

KW neurological disease; drug screening; ss.  
XX OS Homo sapiens.  
XX PN WO200055350-A1.  
XX PD 21-SEP-2000.  
XX PF 08-MAR-2000; 2000WO-US005882.  
XX PR 12-MAR-1999; 99US-0124270P.  
XX PA (HUMA-) HUMAN GENOME SCI INC.  
XX PI Rosen CA, Ruben SM;  
DR WPI; 2000-587533/55.  
DR P-PSDB; AAB43790.  
XX PT Novel isolated nucleic acids comprising sequences encoding peptides useful for treating or diagnosing e.g. cancer.  
XX PS Claim 1; Page 936; 2352pp; English.  
XX CC AAC77607 to AAC78448 encode the human cancer associated proteins given in AAB43398 to AAB44239. The proteins can have activities based on the tissues and cells the genes are expressed in. Example of activities include: cytostatic; proliferative; vulnerary; immunomodulator; antidiabetic; antiasthmatic; antirheumatic; antiarthritic; antiinflammatory; antithyroid; antiallergic; antibacterial; antiviral; dermatological; neuroprotective; cardiant; thrombolytic; coagulant; neurotropic; vasotropic; antipsoriatic and antiangiogenic. The polynucleotides and polypeptides can be used for preventing, treating or ameliorating medical conditions and diagnosing pathological conditions. CC Polynucleotides, polypeptides, antibodies, agonists and antagonists from the present invention may be used to treat immune disorders by activating or inhibiting the proliferation, differentiation or mobilisation of CC immune cells to treat disorders of haematopoietic cells, autoimmune disorders, allergic reactions, graft versus host disease and organ rejection, modulate haemostatic or thrombolytic activity, modulate CC inflammation, cancers, cardiovascular disorders, neurological disease and CC bacterial or viral infections. The peptides, nucleotides, antibodies, CC agonists and antagonists may be also used in drug screens. AAC78449 to CC AAC78457 and AAB44240 represent sequences used in the exemplification of CC the present invention  
XX SQ Sequence 749 BP; 205 A; 209 C; 167 G; 163 T; 0 U; 5 Other;  
Query Match 3.0%; Score 67.2; DB 3; Length 749;  
Best Local Similarity 77.1%; Pred. No. 0.00011;  
Matches 81; Conservative 0; Mismatches 24; Indels 0; Gaps 0;  
QY 2138 TTTCCTTTTATCTTATTAATAAATGTTGGTCTCCACCACTGCTCCCAAAAAA 2197  
DB 636 TTCCAGTTATGAATTAATAAATCAATGTTTCCCAAAAAA 695  
QY 2198 AAAAAA 2242  
DB 696 AAAAAA 740  
RESULT 250  
ABQ54165/C  
ID ABQ54165 standard; cDNA; 749 BP.  
XX AC ABQ54165;  
XX DT 22-AUG-2002 (first entry)  
XX DE Human ovarian antigen HLQBT44 cDNA, SEQ ID NO:45.  
XX KW Human; ovarian antigen; ovary; ovarian; breast; cancer; tumour;  
KW ovarian cancer; breast cancer; tumour; reproductive system disorder;



KW infertility; pregnancy disorder; anovulation; polycystic ovary syndrome;  
KW PCOS; ovarian cyst; dysmenorrhea; endocrine disorder; infection;  
KW inflammatory condition; immune disorder; blood disorder;  
KW cardiovascular disorder; respiratory disorder; neurological disorder;  
KW gastrointestinal disorder; urinary system disorder; drug screening;  
KW gene therapy; chromosome mapping; forensic analysis;  
KW antibody preparation; cytostatic; immunomodulatory; neuroprotective;  
KW antiinflammatory; gynaecological; reproductive; gene; ss.  
OS Homo sapiens.  
XX  
XX  
XX WO200200677-A1.  
XX  
XX  
XX 03-JAN-2002.  
XX  
XX  
XX 07-JUN-2001; 2001WO-US018569.  
XX  
XX 07-JUN-2000; 2000US-0209467P.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Birse CE, Rosen CA;  
XX  
XX WPI; 2002-147878/19.  
DR P-PSDB; ABP41088.  
XX  
XX Isolated nucleic acid molecules encoding novel ovarian polypeptides,  
PT useful in the prevention, treatment and diagnosis of cancer (e.g. ovarian  
PT cancer), immune disorders, cardiovascular disorders and neurological  
PT diseases.  
XX  
XX Claim 1; SEQ ID NO 45; 2922pp; English.  
XX  
XX The invention relates to 2175 novel human ovarian antigens (ABP41054-  
CC ABP43228) and to cDNAs encoding them (ABQ54131-ABQ56305), and also  
CC encompasses polypeptides 90% identical and polynucleotides 95% identical  
CC to the sequences of the invention. The invention additionally relates to  
CC recombinant vectors and host cells comprising human ovarian antigen  
CC polynucleotides, antibodies against human ovarian antigens, and the use  
CC of ovarian antigen polynucleotides and polypeptides in diagnosing,  
CC treating, prognosing or preventing various ovary and/or breast-related  
CC disorders. Such conditions include ovarian cancer and breast cancer, and  
CC metastatic tumours of ovarian or breast origin, reproductive system  
CC disorders (e.g., infertility, disorders of pregnancy, anovulation,  
CC polycystic ovary syndrome, ovarian cysts, and dysmenorrhoea), endocrine  
CC disorders, infections (e.g., chlamydia, HIV, toxoplasmosis, and toxic  
CC shock syndrome), inflammatory conditions (e.g., mastitis, oophoritis and  
CC vaginitis), immune disorders (e.g., congenital and acquired  
CC immunodeficiencies, autoimmune oophoritis, systemic lupus erythematosus),  
CC blood-related disorders (e.g., anaemia), cardiovascular disorders,  
CC respiratory disorders, neurological disorders, gastrointestinal disorders  
CC and urinary system disorders. Ovarian antigen polypeptides and  
CC polynucleotides may also be used in screening for compounds which  
CC modulate ovarian antigen expression or activity. The polynucleotides may  
CC further be used for gene therapy, chromosome mapping, in the  
CC identification of individuals and in forensic analysis, and the  
CC polypeptides may be used as food additives or to prepare antibodies  
CC useful in disease diagnosis, drug targeting and phenotyping. The present  
CC sequence represents cDNA encoding a human ovarian antigen of the  
CC invention. Note: The sequence data for this patent did not form part of  
CC the printed specification, but was obtained in electronic format directly  
CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 749 BP; 163 A; 167 C; 209 G; 205 T; 0 U; 5 Other;

Query Match 3.0%; Score 67.2; DB 6; Length 749;  
Best Local Similarity 77.1%; Pred. No. 0.00011;  
Matches 81; Conservative 0; Mismatches 24; Indels 0; Gaps 0;  
QY 2138 TTTCCTTTTATCTTATTAATAAATGTTGTCTCCACCACCTGCTCCCAAAAAA 2197  
DB 114 TTCCAGTTATGAATAAATAAATCAATGGTTTCCACAAAAA 55

QY 2198 AA 2242  
DB 54 AA 10  
RESULT 251  
AAH72615  
ID AAH72615 standard; cDNA; 1043 BP.  
XX  
XX AC AAH72615;  
XX  
XX DT 19-SEP-2001 (first entry)  
XX  
XX DE Human cervical cancer marker nucleic acid 3889.  
XX  
XX KW Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.  
XX OS Homo sapiens.  
XX  
XX PN WO200142467-A2.  
XX  
XX PD 14-JUN-2001.  
XX  
XX 08-DEC-2000; 2000WO-US033312.  
XX  
XX 08-DEC-1999; 99US-0169681P.  
XX  
XX 21-DEC-1999; 99US-0171350P.  
XX  
XX 14-MAR-2000; 2000US-0189315P.  
XX  
XX 12-MAY-2000; 2000US-0203791P.  
XX  
XX 09-JUN-2000; 2000US-0210600P.  
XX  
XX 21-JUL-2000; 2000US-0220114P.  
XX  
XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.  
XX  
XX PI Schlegel R, Deeds J, Berger A, Zhao X;  
XX  
XX WPI; 2001-375006/39.  
XX  
XX PT New isolated nucleic acid for diagnosing and treating cervical cancer and  
XX for assessing and detecting compounds for treating the cancer.  
XX  
XX Claim 1; Page 763; 1051pp; English.  
XX  
XX The invention relates to novel genes (AAH68727-AAH73383) associated with  
XX cervical cancer with cytostatic activity. The nucleic acids and encoded  
XX polypeptides are useful: to assess if a patient is afflicted with  
XX cervical cancer or has a pre-malignant condition; to monitor the  
XX progression of cervical cancer or a premalignant condition in a patient;  
XX and to select and/or assess the efficacy of a compound or therapy for  
XX inhibiting cervical cancer in a patient. The nucleic acids may also be  
XX useful for gene therapy  
XX  
SQ Sequence 1043 BP; 299 A; 261 C; 201 G; 251 T; 0 U; 31 Other;  
Query Match 3.0%; Score 67.2; DB 4; Length 1043;  
Best Local Similarity 71.9%; Pred. No. 0.00012;  
Matches 87; Conservative 0; Mismatches 34; Indels 0; Gaps 0;  
QY 2122 CTTTGCTTTACCACTCTTTCTCTTTTATCTTATTAATAAATGTTGTCTCCACACTGN 2181  
DB 213 CAITCCCAATAAACTCTTCTTATAATACTTTTACAACTAAACTGACCAATGTAACAGG 272  
QY 2182 CTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2241  
DB 273 TTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 332  
QY 2242 A 2242  
DB 333 A 333  
RESULT 252  
ABQ54594

ABQ54594 standard; cDNA; 1058 BP.  
ABQ54594;  
22-AUG-2002 (first entry)  
Human ovarian antigen HCOW35 cDNA, SEQ ID NO:474.  
Human; ovarian antigen; ovary; ovarian; breast; cancer; tumour;  
ovarian cancer; breast cancer; tumour; reproductive system disorder;  
infertility; pregnancy disorder; anovulation; polycystic ovary syndrome;  
PCOS; ovarian cyst; dysmenorrhea; endocrine disorder; infection;  
inflammatory condition; immune disorder; blood disorder;  
cardiovascular disorder; respiratory disorder; neurological disorder;  
gastrointestinal disorder; urinary system disorder; drug screening;  
gene therapy; chromosome mapping; forensic analysis;  
antibody preparation; cytostatic; immunomodulatory; neuroprotective;  
antiinflammatory; gynaecological; reproductive; chromosome 22q13.31;  
gene; ss.  
Homo sapiens.  
WO200200677-A1.  
03-JAN-2002.  
07-JUN-2001; 2001WO-US018569.  
07-JUN-2000; 2000US-0209467P.  
(HUMA-) HUMAN GENOME SCI INC.  
Birse CE, Rosen CA;  
WPI; 2002-147878/19.  
P-PSDB; ABP41517.  
Isolated nucleic acid molecules encoding novel ovarian polypeptides,  
useful in the prevention, treatment and diagnosis of cancer (e.g. ovarian  
cancer), immune disorders, cardiovascular disorders and neurological  
diseases.  
Claim 1; SEQ ID NO 474; 2922bp; English.  
The invention relates to 2175 novel human ovarian antigens (ABP41054-  
ABP43228) and to cDNAs encoding them (ABQ54131-ABQ56305), and also  
encompasses polypeptides 90% identical and polynucleotides 95% identical  
to the sequences of the invention. The invention additionally relates to  
recombinant vectors and host cells comprising human ovarian antigen  
polynucleotides, antibodies against human ovarian antigens, and the use  
of ovarian antigen polynucleotides and polypeptides in diagnosing,  
treating, prognosing or preventing various ovary and/or breast-related  
disorders. Such conditions include ovarian cancer and breast cancer, and  
metastatic tumours of ovarian or breast origin, reproductive system  
disorders (e.g., infertility, disorders of pregnancy, anovulation,  
polycystic ovary syndrome, ovarian cysts, and dysmenorrhoea), endocrine  
disorders, infections (e.g., chlamydia, HIV, toxoplasmosis and toxic  
shock syndrome), inflammatory conditions (e.g., mastitis, oophoritis and  
vaginitis), immune disorders (e.g., congenital and acquired  
immunodeficiencies, autoimmune oophoritis, systemic lupus erythematosus),  
blood-related disorders (e.g., anaemia), cardiovascular disorders,  
respiratory disorders, neurological disorders, gastrointestinal disorders  
and urinary system disorders. Ovarian antigen polypeptides and  
polynucleotides may also be used in screening for compounds which  
modulate ovarian antigen expression or activity. The polynucleotides may  
further be used for gene therapy, chromosome mapping, in the  
identification of individuals and in forensic analysis, and the  
polypeptides may be used as food additives or to prepare antibodies  
useful in disease diagnosis, drug targeting and phenotyping. The present  
sequence represents cDNA encoding a human ovarian antigen of the  
invention. Note: The sequence data for this patent did not form part of  
the printed specification, but was obtained in electronic format directly  
from WIPO at ftp.wipo.int/pub/published\_pct\_sequences

XX SQ Sequence 1058 BP; 288 A; 256 C; 276 G; 235 T; 0 U; 3 Other;  
Query Match 3.0%; Score 67.2; DB 6; Length 1058;  
Best Local Similarity 84.3%; Pred. No. 0.00013;  
Matches 75; Conservative 0; Mismatches 14; Indels 0; Gaps 0;  
QY 2154 TAATAAAATGTTGGTCTCCACCACTGCTCCCAAAAAAAAAAAAAAAAAAAAAA 2213  
Db 914 TCATATAATGTTGGTCTCCACCAAAAAAAAAAAAAAAAAAAAAA 973  
QY 2214 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242  
Db 974 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1002  
RESULT 253  
AAC89723  
ID AAC89723 standard; cDNA; 1091 BP.  
XX AAC89723;  
AC  
XX 09-MAR-2001 (first entry)  
DT  
XX  
DE Maize ZmGnsN1-1 glucanase cDNA.  
XX  
KW Maize; ZmGnsN1-1; glucanase; plant growth; disease resistance;  
KW transgenic plant; mutation detection; expression analysis; ss.  
XX  
OS Zea mays.  
XX  
PN WO200073470-A2.  
XX  
PD 07-DEC-2000.  
XX  
PF 08-JUN-1999; 99WO-US012761.  
XX  
PR 26-MAY-1999; 99US-00320076.  
XX  
PA (PION-) PIONEER HI-BRED INT INC.  
XX  
PI Simmons CR;  
XX  
DR WPI; 2001-061547/07.  
XX  
DR P-PSDB; AAB50354.  
XX  
PT New exo- and endo-glucanase polypeptides and polynucleotides useful in  
PT e.g. cell wall elongation or expansion, enhancing silage or forage crop  
PT digestibility, improving plant defense against pathogens and stress.  
XX  
PS Example 3; Page 90-91; 108pp; English.  
XX  
CC The present sequence is one of a number of glucanase polynucleotides  
CC isolated from Zea mays. The nucleic acids encoding for glucanases are  
CC useful for improving cell wall elongation or expansion and altering the  
CC growth of a plant or improving kernel growth rates, enhancing silage or  
CC forage crop digestibility, plant defense against pathogens and stress,  
CC flowering, fruit and seed maturation, abscission and senescence, and  
CC tissue differentiation. The nucleic acids may also be used as probes or  
CC amplification primers in the detection, quantitation or isolation of gene  
CC transcripts, and for detecting deficiencies in mRNA levels in screening  
CC for a desired transgenic plant. They can also be used for detecting gene  
CC mutations, for monitoring upregulation of expression or changes in enzyme  
CC activity in screening assays of compounds, and for detection of any  
CC number of allelic variants of the gene, as molecular markers in plant  
CC breeding programmes. The nucleic acids can be used for recombinant  
CC expression of exo- or endo-glucanase polypeptides, and as immunogens in  
CC preparing or screening antibodies. The proteins may also be used in  
CC assays for enzyme agonists or antagonists, or as immunogens or antigens  
CC to obtain antibodies immunoreactive with the protein  
XX  
SQ Sequence 1091 BP; 299 A; 297 C; 276 G; 219 T; 0 U; 0 Other;

Query Match 3.0%; Score 67.2; DB 4; Length 1091;  
 Best Local Similarity 71.9%; Pred. No. 0.00013;  
 Matches 87; Conservative 0; Mismatches 34; Indels 0; Gaps 0;

QY 2122 CTTTGCCTTACACACTCTTTCTTTTATCTTATTAATAAATGTTGGTCTCCACACTGN 2181  
 |||||  
 DB 942 CTATGATATTTCTTTCTTTCTTTTGTCTTTTATGATCGCAATAAAGTTTCAGTAGGGG 1001

QY 2182 CTCCTCAAA 2241  
 |||||  
 DB 1002 TAAAAAATAA 1061

QY 2242 A 2242  
 |  
 DB 1062 A 1062

RESULT 254  
 ABX95035  
 ID ABX95035 standard; cDNA; 1091 BP.

XX AC ABX95035;  
 XX 13-JUN-2003 (first entry)

DE cDNA encoding maize coleoptile endo-1,3,1,4-beta-glucanase.

XX Maize; ss; gene; EST; expressed sequence tag; coleoptile; transgenic;  
 KW endo-1,3,1,4-beta-glucanase; endoglucanase; forage crop digestibility;  
 KW plant development; cell wall composition; soybean endoglucanase level;  
 KW plant growth; sunflower endoglucanase level; sorghum endoglucanase level;  
 KW canola endoglucanase level; wheat endoglucanase level; plant; feed;  
 KW alfalfa endoglucanase level; cotton endoglucanase level;  
 KW rice endoglucanase level; barley endoglucanase level;  
 KW millet endoglucanase level; silage digestibility.

XX Zea mays.  
 XX Key Location/Qualifiers  
 XX CDS 68..979  
 XX /\*tag= a  
 XX /product= "Endo-1,3,1,4-beta-glucanase"

XX US6501008-B1.  
 XX 31-DEC-2002.

XX 09-JUN-1999; 99US-00328965.  
 XX 10-JUN-1998; 98US-0088780P.  
 XX (REGC ) UNIV CALIFORNIA.

XX Nevins DJ, Simmons CR;  
 XX WPI; 2003-352191/33.  
 XX P-PSDB; ABU08940.

XX New maize nucleic acid encoding endo-1,3,1,4-beta-glucanase, useful for  
 PT modulating the level of endoglucanase protein in a plant such as maize,  
 PT soybean, rice, or millet.  
 XX Claim 1; Col 45-46; 32pp; English.

XX The invention relates to an isolated nucleic acid encoding an endo-1,3;  
 CC 1,4-beta-glucanase. An expression cassette containing the polynucleotide  
 CC is useful for modulating the level of endoglucanase protein in a plant  
 CC such as maize, soybean, sunflower, sorghum, canola, wheat, alfalfa,  
 CC cotton, rice, barley, or millet, by introducing an expression cassette  
 CC containing the polynucleotide into a plant and regenerating the plant  
 CC cell to produce a regenerated plant, thus inducing expression of the  
 CC polynucleotide for a time sufficient to modulate endoglucanase protein in  
 CC the plant. The level of endoglucanase protein is increased by this

CC method. The polynucleotide is useful in the development and growth of  
 CC plants, for improving digestibility of silage or forage crops, for  
 CC monitoring upregulation of expression or changes in enzyme activity in  
 CC screening assays of compounds, in recombinant expression of exo- or  
 CC endoglucanase polypeptides, as immunogens in the preparation and/or  
 CC screening of antibodies, in sense or antisense suppression of one or more  
 CC exo- or endoglucanase genes in a host cell, tissue or plant, for  
 CC modulating transcription or translation, to modulate turnover of  
 CC heterologous mRNAs and/or protein synthesis, or to modulate translational  
 CC level and/or rates. The polynucleotide is also useful in sequence  
 CC shuffling, to alter the composition of the cell walls of the plant, thus  
 CC improving digestibility of the plant to be used for feed, and for  
 CC improving growth in a plant. The present sequence represents cDNA  
 CC encoding the maize coleoptile endo-1,3,1,4-beta-glucanase

XX Sequence 1091 BP; 299 A; 297 C; 276 G; 219 T; 0 U; 0 Other;  
 SQ

Query Match 3.0%; Score 67.2; DB 8; Length 1091;  
 Best Local Similarity 71.9%; Pred. No. 0.00013;  
 Matches 87; Conservative 0; Mismatches 34; Indels 0; Gaps 0;

QY 2122 CTTTGCCTTACACACTCTTTCTTTTATCTTATTAATAAATGTTGGTCTCCACACTGN 2181  
 |||||  
 DB 942 CTATGATATTTCTTTCTTTCTTTTGTCTTTTATGATCGCAATAAAGTTTCAGTAGGGG 1001

QY 2182 CTCCTCAA 2241  
 |||||  
 DB 1002 TAAAAAATAA 1061

QY 2242 A 2242  
 |  
 DB 1062 A 1062

RESULT 255  
 ADQ23886/c  
 ID ADQ23886 standard; DNA; 2007 BP.

XX AC ADQ23886;  
 XX 26-AUG-2004 (first entry)

DE Human soft tissue sarcoma-upregulated DNA - SEQ ID 6706.

XX soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human;  
 KW ds.

XX Homo sapiens.  
 XX WO2004048938-A2.  
 XX 10-JUN-2004.

XX 26-NOV-2003; 2003WO-US038193.  
 XX 26-NOV-2002; 2002US-0429739P.  
 XX (PROT-) PROTEIN DESIGN LABS INC.  
 XX Aziz N, Ginsburg WM, Zlotnik A;  
 XX WPI; 2004-441208/41.

XX Early detection of soft tissue sarcoma comprises determining expression  
 PT of a gene in a first soft tissue sample and a normal soft tissue sample  
 PT and comparing the gene expression, also useful in treating soft tissue  
 PT sarcoma.

XX Example 2; SEQ ID NO 6706; 210pp; English.

XX The invention relates to a novel method for detecting soft tissue sarcoma  
 CC which comprises obtaining a first soft tissue sample from an individual  
 CC and a normal soft tissue sample from the same or different individual,



XX WIPI; 2001-611502/70.

DR

XX

PT Novel isolated nucleic acid molecules (markers) overexpressed in ovarian

PT cancer cells as compared to their normal non-cancerous ovarian cells are

PT used to characterize stage, grade, histological type of ovarian cancer.

XX

XX Disclosure; SEQ ID NO 5141; 106pp; English.

XX

CC The invention relates to nucleic acid markers which are overexpressed in

CC ovarian cancer cells as compared to their expression in normal (i.e. non-

CC cancerous) ovarian cells. The invention also relates to polypeptides

CC encoded by the markers, antibodies that selectively bind to the

CC polypeptides, a method of inhibiting ovarian cancer in a patient at risk

CC of developing ovarian cancer involving inhibiting expression of a gene

CC corresponding to a marker of the invention and a method of treating a

CC patient afflicted with ovarian cancer comprising providing to cells of

CC the patient an antisense oligonucleotide complementary to a marker of the

CC invention. The markers are useful for assessing if a patient is afflicted

CC with ovarian cancer, which involves comparing the level of expression of

CC a marker in a patient sample and a normal level of expression of the

CC marker in a control non-ovarian cancer sample. A difference between the

CC expression levels indicates ovarian cancer. The level of expression of a

CC marker corresponds to a secreted protein or to a transcribed

CC polynucleotide or its portion. The level of expression of the marker is

CC assessed by detecting the presence in the sample, a protein or protein

CC fragment corresponding to the marker. The presence of protein or protein

CC fragment is detected using an antibody that specifically binds with the

CC protein or protein fragment. Alternatively, the level of expression of

CC the marker is assessed by detecting the presence of a transcribed

CC polynucleotide which anneals with the marker or anneals with a portion of

CC the polynucleotide comprising the marker, under stringent conditions. The

CC marker is also used for monitoring the progression of ovarian cancer in a

CC patient which involves detecting expression of the marker in a patient

CC sample at a first point in time, repeating the method at a subsequent

CC time and comparing the level of expression. The method is carried out

CC using an ovarian tissue sample. A composition comprising a marker,

CC polypeptide or antibody of the invention is used to treat ovarian cancer.

CC This sequence represents a human ovarian cancer DNA marker of the

CC invention. Note: The sequence data for this patent did not form part of

CC the printed specification, but was obtained in electronic format directly

CC from WIPO at [fp.wipo.int/pub/published\\_pct\\_sequences](http://fp.wipo.int/pub/published_pct_sequences).

XX

XX Sequence 346 BP; 81 A; 27 C; 47 G; 139 T; 0 U; 52 Other;

SQ

Query Match 3.0%; Score 67; DB 5; Length 346;

Best Local Similarity 54.7%; Pred. No. 9.8e-05;

Matches 94; Conservative 0; Mismatches 78; Indels 0; Gaps 0;

QY 2071 TTCTAGGTCCTCAAGTGCTCGTGACACATATCATTCATCCATCATGATCGCTTTGCTTT 2130

Db 244 TTNTTAAANNANNCGGGGGNCNNTTTCNTTNTCNAAANATTTTTTTTNTTTT 185

QY 2131 ACCACTCTTTCTTTTATCTATTATTAATAAAATGTTGGTCTCCACCACTGNCTCCCAAAA 2190

Db 184 NCCCCCCNCNANVTTTTGGGNATTTTNTANTATNCNNNCCCCCNAAAAAAAAAAAA 125

QY 2191 AA 2242

Db 124 AA 73

RESULT 258

ABV56394/C

ID ABV56394 standard; cDNA; 404 BP.

XX

AC ABV56394;

XX

AC

XX

DT 17-SEP-2002 (first entry)

XX

DE Human prostate expression marker cDNA 56395.

XX

XX Human; prostate cancer; cytostatic; carcinogen; pharmanodivamic marker;

XX

OS	Homo sapiens.
XX	WO200170979-A2.
FN	
XX	
PD	27-SEP-2001.
PP	
XX	21-MAR-2001; 2001WO-US009126..
XX	
PR	21-MAR-2000; 2000US-0191031P.
PR	25-MAY-2000; 2000US-0207124P.
PR	15-JUN-2000; 2000US-0211940P.
PR	07-JUL-2000; 2000US-0216820P.
PR	25-JUL-2000; 2000US-0220661P.
PR	21-DEC-2000; 2000US-0257672P.
XX	
XX	(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
PA	
PI	Lee J, Lillie J;
PI	
XX	WPI; 2001-611502/70.
XX	
PT	Novel isolated nucleic acid molecules (markers) overexpressed in ovarian cancer cells as compared to their normal non-cancerous ovarian cells are used to characterize stage, grade, histological type of ovarian cancer.
PT	
PT	
XX	Disclosure; SEQ ID NO 17779; 106pp; English.
PS	
XX	The invention relates to nucleic acid markers which are overexpressed in ovarian cancer cells as compared to their expression in normal (i.e. non-cancerous) ovarian cells. The invention also relates to polypeptides encoded by the markers, antibodies that selectively bind to the polypeptides, a method of inhibiting ovarian cancer in a patient at risk of developing ovarian cancer involving inhibiting expression of a gene corresponding to a marker of the invention and a method of treating a patient afflicted with ovarian cancer comprising providing to cells of the patient an antisense oligonucleotide complementary to a marker of the invention. The markers are useful for assessing if a patient is afflicted with ovarian cancer, which involves comparing the level of expression of the marker in a patient sample and a normal level of expression of the marker in a control non-ovarian cancer sample. A difference between the expression levels indicates ovarian cancer. The level of expression of a marker corresponds to a secreted protein or to a transcribed polynucleotide or its portion. The level of expression of the marker is assessed by detecting the presence in the sample, a protein or protein fragment corresponding to the marker. The presence of protein or protein fragment is detected using an antibody that specifically binds with the marker is assessed by detecting the presence of a transcribed polynucleotide which anneals with the marker or anneals with a portion of the polynucleotide comprising the marker, under stringent conditions. The marker is also used for monitoring the progression of ovarian cancer in a patient which involves detecting expression of the marker in a patient sample at a first point in time, repeating the method at a subsequent time and comparing the level of expression. The method is carried out using an ovarian tissue sample. A composition comprising a marker, polypeptide or antibody of the invention is used to treat ovarian cancer. This sequence represents a human ovarian cancer DNA marker of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX	
SQ	Sequence 461 BP; 142 A; 48 C; 96 G; 174 T; 0 U; 1 Other;
	Query Match 3.0%; Score 67; DB 5; Length 461;
	Best Local Similarity 65.5%; Pred. No. 0.00011;
	Matches 97; Conservative 0; Mismatches 51; Indels 0; Gaps 0;
Qy	2095 CACATATCATCTCCATCAATGATCGCGCTTGCTTACCACCTCTTTTCCTTTATCTTTATT 2154
Db	297 CCCAAAAAATAAAACCCCCCCCCTTTTTTTTAATGATGCATCTTTTTTTTTTTT 238
Oy	2155 AATAAAATGTGGTCTCCACCACTGNCTCCCAAAAAAAAAAAAAAAAAAAAAA 2214

SQ		Sequence 528 BP; 247 A; 32 C; 76 G; 173 T; 0 U; 0 Other;	
	Query Match	3.0%; Score 67; DB 13; Length 528;	
	Best Local Similarity	73.3%; Pred.No. 0.00011;	
	Matches 85; Conservative	0; Mismatches 31; Indels 0; Gaps 0;	
QY	2127	CITTACCACTTCCTTTTATCTATTATAAATAAGTGTCGCCACTGNCCTCCC	2186
Dd	197	CTTTTTCCCTTTTTTTTTTCTTTTTTTGTAAAAATTTTTTTTTTTTAAAAAAAA	138
QY	2187	AA	2242
Dd	137	AA	82
RESULT 262			
AAL08093/C			
ID	AAL08093 standard; cDNA; 768 BP.		
XX			
AC	AAL08093;		
XX			
DT	07-DEC-2001 (first entry)		
XX			
DE	Human breast cancer expressed polynucleotide 550.		
XX			
KW	Human; breast cancer; cell marker; cytostatic; ss.		
OS	Homo sapiens.		
XX			
PX	WO200151628-A2.		
PP	19-JUL-2001.		
PF	10-JAN-2001; 2001WO-US000798.		
XX			
PR	14-JAN-2000; 2000US-0176077P.		
PR	14-MAR-2000; 2000US-0189167P.		
PR	24-MAR-2000; 2000US-0192099P.		
PR	29-MAR-2000; 2000US-0193480P.		
PR	15-MAY-2000; 2000US-0205230P.		
PR	09-JUN-2000; 2000US-0211315P.		
PR	25-JUL-2000; 2000US-0220534P.		
XX			
PA	(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.		
XX			
PI	Lillie J, Xu Y, Wang Y, Steinmann K;		
XX			

DR WPI; 2001-451856/48.  
XX  
PT New peptide useful as a marker for the diagnosis of breast cancer.  
XX  
PS Claim 1; Page 183; 3695pp; English.  
XX  
CC The invention relates to human breast cancer expressed polynucleotides  
CC (AAL07544-AAL26789) and methods of assessing whether a patient is  
CC afflicted with breast cancer by examining the correlation between the  
CC expression of certain markers and the cancerous state of breast cells.  
CC The polynucleotides and encoded polypeptides are potential markers for  
CC detecting, diagnosing, monitoring, characterising treating and  
CC potentially preventing breast cancer. The polynucleotides and encoded  
CC polypeptides are also useful for isolating compounds with cytostatic  
CC activity  
XX  
SQ Sequence 768 BP; 232 A; 132 C; 77 G; 173 T; 0 U; 154 Other;  
Query Match 3.0%; Score 67; DB 4; Length 768;  
Best Local Similarity 68.3%; Pred. No. 0.00013;  
Matches 82; Conservative 0; Mismatches 38; Indels 0; Gaps 0;  
QY 2123 TTGCTTTACCACTCTCTTTATCTATTATTAATAAAATGTTGCTCCACCTGNC 2182  
Db 161 TTTTITTTGNGCNTTTTTTTTTTTTTTTTTTTNNNNAATTTTNNANNTTTTAAAAAA 102  
QY 2183 TCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2242  
Db 101 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAA 42

RESULT 263  
AAS01021  
ID AAS01021 standard; cDNA; 976 BP.  
XX  
AC AAS01021;  
XX  
DT 29-MAY-2001 (first entry)  
XX  
DE Sugarcane plant gene promoter cDNA isolated from clone c67.  
XX  
KW Sugarcane promoter region; monocotyledonous plant; stem tissue;  
KW insecticide; herbicide; disease resistance; improved food content;  
KW beta-glucuronidase; GUS; starch biosynthesis; fatty acid biosynthesis;  
KW ADP-glucose pyrophosphorylase; sucrose metabolism; clone c67; ss.  
XX  
OS Saccharum sp.

Key Location/Qualifiers  
FH 5'UTR 1..32 /tag= a  
FT CDS 33..596 /tag= b  
FT /note= "Amino acid sequence deduced from the longest and  
FT conserved ORF"  
FT 3'UTR 597..581 /tag= c  
FT polyA\_site 882 /tag= d  
XX  
PN WO200118211-A1.  
XX  
PD 15-MAR-2001.  
XX  
PF 01-SEP-2000; 2000WO-AU001033.  
XX  
PR 02-SEP-1999; 99AU-00002625.  
XX  
PA (UYQU ) UNIV QUEENSLAND.  
XX  
PI Potier B, Birch RG;  
XX  
DR WPI; 2001-218560/22.

DR P-PSDB; AAU00450.  
XX  
PT New sugarcane plant promoters for directing expression of heterologous  
PT nucleic acids in a constitutive or tissue-specific manner in  
PT monocotyledonous plants.  
XX  
XX Claim 1; Fig 14; 107pp; English.  
PS  
CC The present sequence for sugarcane plant promoter cDNA isolated from  
CC clone c67 is 1 of 11 promoter regions of a transcribable DNA sequence  
CC isolated from various sugarcane cDNA clones (AAS01021-AAS01031). Also  
CC described are 4 promoter regions of specific transcribed DNA sequences  
CC (AAS01032-AAS01035). The nucleic acids are useful for producing  
CC transgenic plants, having an altered phenotype and for driving expression  
CC of a foreign or endogenous DNA sequence, which encode agronomic  
CC properties including insecticide, herbicide, disease resistance, stress  
CC tolerance and improved food content, or increased yields. The foreign or  
CC endogenous DNA sequence may comprise a region transcribed into an  
CC antisense RNA or ribozyme that modulates the expression of a  
CC corresponding target gene, or it may encode beta-glucuronidase (GUS),  
CC luciferase, neomycin phosphotransferase, a product conferring herbicide  
CC tolerance, a product affecting starch biosynthesis or modification, ADP-  
CC glucose pyrophosphorylase, a product involved in fatty acid biosynthesis,  
CC a product conferring insect resistance, a product altering sucrose  
CC metabolism or a gene encoding valuable pharmaceuticals, e.g. antibiotics,  
CC secondary metabolites or vaccines. The promoters are capable of directing  
CC high level expression in many or all cells of a plant, preferentially in  
CC stem or meristem tissue of monocotyledonous plants  
XX  
SQ Sequence 976 BP; 320 A; 213 C; 229 G; 214 T; 0 U; 0 Other;  
Query Match 3.0%; Score 67; DB 4; Length 976;  
Best Local Similarity 79.0%; Pred. No. 0.00014;  
Matches 79; Conservative 0; Mismatches 21; Indels 0; Gaps 0;  
QY 2143 TTTTATCTTATTATAATAAAATGTTGCTCTCCACCTGCTCCAAAAAATAAAAA 2202  
Db 845 TTTTAAGTAATAATAAAAGTGTGTTGTTTTCACGGTTTAAAAAATAAAAAA 904  
QY 2203 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2242  
Db 905 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 944

RESULT 264  
AAV34271  
ID AAV34271 standard; DNA; 1925 BP.  
XX  
AC AAV34271;  
XX  
DT 25-MAR-2003 (revised)  
DT 28-JAN-1999 (first entry)  
XX  
DE Human secreted protein gene 64 clone HSLDU95.  
XX  
KW Human; secreted protein; fusion protein; gene therapy; protein therapy;  
KW diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaemia;  
KW developmental abnormality; foetal deficiency; blood; allergy; renal; ds;  
KW immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma;  
KW inflammation; ischaemic shock; Alzheimer's disease; restenosis; AIDS;  
KW cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus;  
KW osteoporosis; arthritis; testis; lung; thyroiditis; digestion;  
KW endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm.  
XX  
OS Homo sapiens.  
XX  
PN WO9839446-A2.  
XX  
PD 11-SEP-1998.  
XX  
PF 06-MAR-1998; 98WO-US004482.  
XX  
PR 07-MAR-1997; 97US-0038621P.





ID ACD08142 standard; cDNA; 1925 BP.  
 XX AC ACD08142;  
 AC 12-AUG-2003 (first entry)  
 DT cDNA encoding novel human secreted protein #118.  
 DE  
 DE Human; immunoglobulin G; IgG; fragment of crystallisation; Fc;  
 XX immune system disorder; haematopoietic cell disorder;  
 KW immunologic deficiency disorder; ataxia telangiectasia; HIV infection;  
 KW Wiskott-Aldrich disorder; thrombocytopenia; haemoglobinuria;  
 KW blood coagulation disorder; blood platelet disorder; autoimmune disorder;  
 KW Addison's disease; haemolytic anaemia; rheumatoid arthritis; dermatitis;  
 KW Glomerulonephritis; Grave's disease; allergic reaction;  
 KW graft-versus-host disease; hyperproliferative disorder; neoplasm;  
 KW infectious disease; nervous system disease; spinal cord disorder;  
 KW head trauma; stroke; tissue regeneration; congenital defect; trauma;  
 KW wound; burn; incision; ulcer; age disease; osteoporosis;  
 KW periodontal disease; liver failure; catabolism; anabolism; metabolism;  
 KW food additive; preservative; secreted protein; gene; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX US2003027132-A1.  
 PN 06-FEB-2003.  
 XX  
 XX 04-SEP-1998; 98US-00148545.  
 XX 07-MAR-1997; 97US-0038621P.  
 PR 07-MAR-1997; 97US-0040161P.  
 PR 07-MAR-1997; 97US-0040162P.  
 PR 07-MAR-1997; 97US-0040163P.  
 PR 07-MAR-1997; 97US-0040333P.  
 PR 07-MAR-1997; 97US-0040334P.  
 PR 07-MAR-1997; 97US-0040336P.  
 PR 07-MAR-1997; 97US-0040626P.  
 PR 11-APR-1997; 97US-0043311P.  
 PR 11-APR-1997; 97US-0043312P.  
 PR 11-APR-1997; 97US-0043313P.  
 PR 11-APR-1997; 97US-0043314P.  
 PR 11-APR-1997; 97US-0043315P.  
 PR 11-APR-1997; 97US-0043568P.  
 PR 11-APR-1997; 97US-0043569P.  
 PR 11-APR-1997; 97US-0043576P.  
 PR 11-APR-1997; 97US-0043578P.  
 PR 11-APR-1997; 97US-0043580P.  
 PR 11-APR-1997; 97US-0043669P.  
 PR 11-APR-1997; 97US-0043670P.  
 PR 11-APR-1997; 97US-0043671P.  
 PR 11-APR-1997; 97US-0043672P.  
 PR 11-APR-1997; 97US-0043674P.  
 PR 23-MAY-1997; 97US-0047492P.  
 PR 23-MAY-1997; 97US-0047500P.  
 PR 23-MAY-1997; 97US-0047501P.  
 PR 23-MAY-1997; 97US-0047502P.  
 PR 23-MAY-1997; 97US-0047503P.  
 PR 23-MAY-1997; 97US-0047581P.  
 PR 23-MAY-1997; 97US-0047582P.  
 PR 23-MAY-1997; 97US-0047583P.  
 PR 23-MAY-1997; 97US-0047584P.  
 PR 23-MAY-1997; 97US-0047585P.  
 PR 23-MAY-1997; 97US-0047586P.  
 PR 23-MAY-1997; 97US-0047587P.  
 PR 23-MAY-1997; 97US-0047588P.  
 PR 23-MAY-1997; 97US-0047589P.  
 PR 23-MAY-1997; 97US-0047590P.  
 PR 23-MAY-1997; 97US-0047592P.  
 PR 23-MAY-1997; 97US-0047593P.  
 PR 23-MAY-1997; 97US-0047594P.  
 PR 23-MAY-1997; 97US-0047595P.  
 PR 23-MAY-1997; 97US-0047596P.  
 PR 23-MAY-1997; 97US-0047597P.  
 PR 23-MAY-1997; 97US-0047598P.  
 PR 23-MAY-1997; 97US-0047599P.  
 PR 23-MAY-1997; 97US-0047600P.  
 PR 23-MAY-1997; 97US-0047601P.  
 PR 23-MAY-1997; 97US-0047612P.  
 PR 23-MAY-1997; 97US-0047613P.  
 PR 23-MAY-1997; 97US-0047614P.  
 PR 23-MAY-1997; 97US-0047615P.  
 PR 23-MAY-1997; 97US-0047617P.  
 PR 23-MAY-1997; 97US-0047618P.  
 PR 23-MAY-1997; 97US-0047632P.  
 PR 23-MAY-1997; 97US-0047633P.  
 PR 06-JUN-1997; 97US-0048964P.  
 PR 06-JUN-1997; 97US-0048974P.  
 PR 22-AUG-1997; 97US-0056630P.  
 PR 22-AUG-1997; 97US-0056631P.  
 PR 22-AUG-1997; 97US-0056632P.  
 PR 22-AUG-1997; 97US-0056636P.  
 PR 22-AUG-1997; 97US-0056637P.  
 PR 22-AUG-1997; 97US-0056662P.  
 PR 22-AUG-1997; 97US-0056664P.  
 PR 22-AUG-1997; 97US-0056845P.  
 PR 22-AUG-1997; 97US-0056862P.  
 PR 22-AUG-1997; 97US-0056864P.  
 PR 22-AUG-1997; 97US-0056872P.  
 PR 22-AUG-1997; 97US-0056874P.  
 PR 22-AUG-1997; 97US-0056875P.  
 PR 22-AUG-1997; 97US-0056876P.  
 PR 22-AUG-1997; 97US-0056877P.  
 PR 22-AUG-1997; 97US-0056878P.  
 PR 22-AUG-1997; 97US-0056879P.  
 PR 22-AUG-1997; 97US-0056880P.  
 PR 22-AUG-1997; 97US-0056881P.  
 PR 22-AUG-1997; 97US-0056882P.  
 PR 22-AUG-1997; 97US-0056884P.  
 PR 22-AUG-1997; 97US-0056886P.  
 PR 22-AUG-1997; 97US-0056887P.  
 PR 22-AUG-1997; 97US-0056888P.  
 PR 22-AUG-1997; 97US-0056889P.  
 PR 22-AUG-1997; 97US-0056892P.  
 PR 22-AUG-1997; 97US-0056893P.  
 PR 22-AUG-1997; 97US-0056894P.  
 PR 22-AUG-1997; 97US-0056903P.  
 PR 22-AUG-1997; 97US-0056908P.  
 PR 22-AUG-1997; 97US-0056909P.  
 PR 22-AUG-1997; 97US-0056910P.  
 PR 22-AUG-1997; 97US-0056911P.  
 PR 05-SEP-1997; 97US-0057650P.  
 PR 05-SEP-1997; 97US-0057761P.  
 PR 06-MAR-1998; 98WO-US004482.  
 XX  
 PA (RUBE/) RUBEN S M.  
 PA (ROSE/) ROSEN C A.  
 PA (FISC/) FISCHER C L.  
 PA (SOPP/) SOPPET D R.  
 PA (CART/) CARTER K C.  
 PA (BEDN/) BEDNARIK D R.  
 PA (ENDR/) ENDRESS G A.  
 PA (YUGG/) YU G.  
 PA (NIJJ/) NI J.  
 PA (FENG/) FENG P.  
 PA (YOUN/) YOUNG P E.  
 PA (GREE/) GREENE J M.  
 PA (FERR/) FERRIE A M.  
 PA (DUAN/) DUAN R.  
 PA (HUJJ/) HU J.  
 PA (FLOR/) FLORENCE K A.  
 PA (OLSE/) OLSEN H S.  
 PA (EBNE/) EBNER R.  
 PA (BREW/) BREWER L A.  
 PA (SHIY/) SHI Y.  
 XX

PI Ruben SM, Rosen CA, Fischer CL, Soppet DR, Carter KC;  
 PI Bednarik DR, Endress GA, Yu G, Ni J, Feng P, Young PE, Greene JM;  
 PI Ferrie AM, Duan R, Hu J, Florence KA, Olsen HS, Ebner R, Brewer LA;  
 XX Shi Y;  
 DR WPI; 2003-466138/44.  
 DR P-PSDB; ABO02050.

XX Novel isolated human secreted HODAZ50 polypeptide useful for diagnosing  
 PT or treating deficiencies or disorders of the immune system, autoimmune  
 PT disorders, hyperproliferative disorders, and infectious diseases.  
 XX  
 PS Claim 4; Page 164-165; 243pp; English.

XX The invention describes an isolated human secreted HODAZ50 polypeptide  
 CC comprising a sequence at least 95% identical to a sequence selected  
 CC from polypeptide fragment of any one of the 123 polypeptide sequences  
 CC (PS) fully defined in the specification and having biological activity,  
 CC polypeptide domain or epitope of PS, secreted form of PS, full-length  
 CC protein of PS, or variant, allelic variant or species homologue of PS.  
 CC (I) or a polynucleotide (II) encoding (I) is useful for preventing,  
 CC treating, or ameliorating a medical condition in a mammalian subject. (I)  
 CC or (II) is also useful for diagnosing a pathological condition or a  
 CC susceptibility to a pathological condition in a subject. (I) is useful  
 CC for identifying a binding partner which involves contacting the  
 CC polypeptide with the binding partner and determining whether the binding  
 CC partner affects the activity of the polypeptide. (I) or (II) is useful  
 CC for diagnosing or treating deficiencies or disorders of the immune  
 CC system, deficiencies or disorders of haematopoietic cells, to treat  
 CC immunologic deficiency disorders, ataxia telangiectasia, HIV infection,  
 CC Wiskott-Aldrich disorders, thrombocytopenia or haemoglobinuria, blood  
 CC coagulation disorders, blood platelet disorders, autoimmune disorders  
 CC (e.g., Addison's disease, haemolytic anaemia, rheumatoid arthritis,  
 CC dermatitis, glomerulonephritis, Grave's disease), allergic reactions,  
 CC graft-versus-host disease, hyperproliferative disorders (e.g., neoplasms  
 CC located in the abdomen, bone, breast, digestive system, liver, pancreas,  
 CC peritoneum, endocrine glands), infectious diseases (e.g., viral,  
 CC bacterial, fungal or parasitic infection), central and peripheral nervous  
 CC system diseases (e.g., spinal cord disorders, head trauma or stroke), to  
 CC differentiate, proliferate and attract cells leading to the regeneration  
 CC of tissues to repair, replace or protect tissue damaged by congenital  
 CC defects, trauma (wounds, burns, incisions, or ulcers) age disease (e.g.,  
 CC osteoporosis, periodontal disease, liver failure) or surgery. (I) or (IV)  
 CC is useful to modulate mammalian characteristics, to modulate mammalian  
 CC metabolism affecting catabolism, anabolism, processing, utilisation, and  
 CC storage of energy, to change a mammal's mental state or physical state,  
 CC or as a food additive or preservative, such as to increase or decrease  
 CC storage capabilities, fat content, lipid, protein, carbohydrate,  
 CC vitamins, minerals, cofactors or other nutritional components. This  
 CC sequence encodes a novel human secreted protein

XX Sequence 1925 BP; 491 A; 513 C; 485 G; 433 T; 0 U; 3 Other;

Query Match 3.0%; Score 67; DB 8; Length 1925;  
 Best Local Similarity 62.0%; Pred. No. 0.00017;  
 Matches 103; Conservative 1; Mismatches 62; Indels 0; Gaps 0;

QY 2077 GTCTCTCAGTCTCGTGACACATATCATTCATCCATCATGATCGCTTGTCTTACCACT 2136  
 Db 1676 GAGCTCCAGCTCTGTGCTCTCTTCTCTCACTCTCTCTCTTTCAGTGCTGAGCAACAGGACT 1735  
 QY 2137 CTTTCTCTTTATCTTATTAATAAATGTTGGTCTCCACCACCTGCTCCCAAAAAA 2196  
 Db 1736 TTCTCCACATGTTTGTGATTGCACATTTTGCATTAAAGGAAATCCANAAAAA 1795  
 QY 2197 AAAAAA 2242  
 Db 1796 AAAAAA 1841

RESULT 266

ADL43756/C

ID ADL43756 standard; DNA; 330 BP.

XX ADL43756;  
 XX  
 DT 20-MAY-2004 (first entry)  
 XX  
 DE Human ovarian cancer DNA marker #17646.  
 XX  
 KW Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.  
 XX  
 OS Homo sapiens.  
 XX  
 FN WO200170979-A2.  
 XX  
 PD 27-SEP-2001.  
 XX

XX 21-MAR-2001; 2001WO-US009126.

XX 21-MAR-2000; 2000US-0191031P.

XX 25-MAY-2000; 2000US-02071124P.

XX 15-JUN-2000; 2000US-0211940P.

XX 07-JUL-2000; 2000US-0216820P.

XX 25-JUL-2000; 2000US-0220661P.

XX 21-DEC-2000; 2000US-0257672P.

XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

XX Lee J, Lillie J;

XX WPI; 2001-611502/70.

XX Novel isolated nucleic acid molecules (markers) overexpressed in ovarian  
 PT cancer cells as compared to their normal non-cancerous ovarian cells are  
 PT used to characterize stage, grade, histological type of ovarian cancer.

XX Disclosure; SEQ ID NO 17646; 106pp; English.

XX The invention relates to nucleic acid markers which are overexpressed in  
 CC ovarian cancer cells as compared to their expression in normal (i.e. non-  
 CC cancerous) ovarian cells. The invention also relates to polypeptides  
 CC encoded by the markers, antibodies that selectively bind to the  
 CC polypeptides, a method of inhibiting ovarian cancer in a patient at risk  
 CC of developing ovarian cancer involving inhibiting expression of a gene  
 CC corresponding to a marker of the invention and a method of treating a  
 CC patient afflicted with ovarian cancer comprising providing to cells of  
 CC the patient an antisense oligonucleotide complementary to a marker of the  
 CC invention. The markers are useful for assessing if a patient is afflicted  
 CC with ovarian cancer, which involves comparing the level of expression of  
 CC a marker in a patient sample and a normal level of expression of the  
 CC marker in a control non-ovarian cancer sample. A difference between the  
 CC expression levels indicates ovarian cancer. The level of expression of a  
 CC marker corresponds to a secreted protein or to a transcribed  
 CC polynucleotide or its portion. The level of expression of the marker is  
 CC assessed by detecting the presence in the sample, a protein or protein  
 CC fragment corresponding to the marker. The presence of protein or protein  
 CC fragment is detected using an antibody that specifically binds with the  
 CC protein or protein fragment. Alternatively, the level of expression of  
 CC the marker is assessed by detecting the presence of a transcribed  
 CC polynucleotide which anneals with the marker or anneals with a portion of  
 CC the polynucleotide comprising the marker, under stringent conditions. The  
 CC marker is also used for monitoring the progression of ovarian cancer in a  
 CC patient which involves detecting expression of the marker in a patient  
 CC sample at a first point in time, repeating the method at a subsequent  
 CC time and comparing the level of expression. The method is carried out  
 CC using an ovarian tissue sample. A composition comprising a marker,  
 CC polypeptide or antibody of the invention is used to treat ovarian cancer.  
 CC This sequence represents a human ovarian cancer DNA marker of the  
 CC invention.

XX Sequence 330 BP; 82 A; 41 C; 55 G; 152 T; 0 U; 0 Other;

Query Match 3.0%; Score 66.8; DB 5; Length 330;

Best Local Similarity 64.9%; Pred. No. 0.00011;

Matches 98; Conservative 0; Mismatches 53; Indels 0; Gaps 0;



time and comparing the level of expression. The method is carried out using an ovarian tissue sample. A composition comprising a marker, polypeptide or antibody of the invention is used to treat ovarian cancer. This sequence represents a human ovarian cancer DNA marker of the invention.

Sequence 445 BP; 118 A; 51 C; 41 G; 147 T; 0 U; 88 Other;  
 Query Match 3.0%; Score 66.8; DB 5; Length 445;  
 Best Local Similarity 69.6%; Pred. No. 0.00012;  
 Matches 80; Conservative 0; Mismatches 35; Indels 0; Gaps 0;  
 2128 TTTACCACTCTTCTTTTATCTTATTAATAAATGTTGGTCTCCACCTGCTCCCA 2187  
 177 TTTCCCGNGTNTTTTTTTTCCNNCNCNTTAAATTTTNNNCCNGGGGAAAAAAA 118  
 2188 AAAAAA  
 117 AAAAAA

RESULT 269  
 ADI70001/C  
 ID ADI70001 standard; DNA; 445 BP.  
 AC ADI70001;  
 20-MAY-2004 (first entry)  
 Human ovarian cancer DNA marker #2743.  
 Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.  
 Homo sapiens.  
 WO200170979-A2.  
 27-SEP-2001.  
 21-MAR-2001; 2001WO-US009126.  
 21-MAR-2000; 2000US-0191031P.  
 25-MAY-2000; 2000US-02071124P.  
 15-JUN-2000; 2000US-0211940P.  
 07-JUL-2000; 2000US-0216820P.  
 25-JUL-2000; 2000US-0220661P.  
 21-DEC-2000; 2000US-0257672P.  
 (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.  
 Lee J, Lillie J;  
 WPI; 2001-611502/70.

Novel isolated nucleic acid molecules (markers) overexpressed in ovarian cancer cells as compared to their normal non-cancerous ovarian cells are used to characterize stage, grade, histological type of ovarian cancer.  
 Disclosure; SEQ ID NO 2743; 106pp; English.  
 The invention relates to nucleic acid markers which are overexpressed in ovarian cancer cells as compared to their expression in normal (i.e. non-cancerous) ovarian cells. The invention also relates to polypeptides encoded by the markers, antibodies that selectively bind to the polypeptides, a method of inhibiting ovarian cancer in a patient at risk of developing ovarian cancer involving inhibiting expression of a gene corresponding to a marker of the invention and a method of treating a patient afflicted with ovarian cancer comprising providing to cells of the patient an antisense oligonucleotide complementary to a marker of the invention. The markers are useful for assessing if a patient is afflicted with ovarian cancer, which involves comparing the level of expression of a marker in a patient sample and a normal level of expression of the marker in a control non-ovarian cancer sample. A difference between the

expression levels indicates ovarian cancer. The level of expression of a marker corresponds to a secreted protein or to a transcribed polynucleotide or its portion. The level of expression of the marker is assessed by detecting the presence in the sample, a protein or protein fragment corresponding to the marker. The presence of protein or protein fragment is detected using an antibody that specifically binds with the protein or protein fragment. Alternatively, the level of expression of the marker is assessed by detecting the presence of a transcribed polynucleotide which anneals with the marker or anneals with a portion of the polynucleotide comprising the marker under stringent conditions. The marker is also used for monitoring the progression of ovarian cancer in a patient which involves detecting expression of the marker in a patient sample at a first point in time, repeating the method at a subsequent time and comparing the level of expression. The method is carried out using an ovarian tissue sample. A composition comprising a marker, polypeptide or antibody of the invention is used to treat ovarian cancer. This sequence represents a human ovarian cancer DNA marker of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.

Sequence 445 BP; 118 A; 51 C; 41 G; 147 T; 0 U; 88 Other;  
 Query Match 3.0%; Score 66.8; DB 5; Length 445;  
 Best Local Similarity 69.6%; Pred. No. 0.00012;  
 Matches 80; Conservative 0; Mismatches 35; Indels 0; Gaps 0;  
 2128 TTTACCACTCTTCTTTTATCTTATTAATAAATGTTGGTCTCCACCTGCTCCCA 2187  
 177 TTTCCCGNGTNTTTTTTTTCCNNCNCNTTAAATTTTNNNCCNGGGGAAAAAAA 118  
 2188 AAAAAA  
 117 AAAAAA

RESULT 270  
 ACN53206/C  
 ID ACN53206 standard; cDNA; 553 BP.  
 AC ACN53206;  
 02-DEC-2004 (first entry)  
 Cotton androecium tissue EST Clone ID: LIB3828-003-Q1-N6-D8, SEQ:7987.  
 Cotton; plant; EST; expressed sequence tag; transgenic plant; androecium; variety Nucotton33B; library LIB3828; molecular tag; molecular marker; genetic mapping; molecular mapping; seed germination; plant growth; plant quality; plant yield; plant breeding; tissue printing; ss.  
 Gossypium hirsutum.  
 US2004123340-A1.  
 24-JUN-2004.  
 12-DEC-2001; 2001US-00021323.  
 14-DEC-2000; 2000US-0255619P.  
 (DEIK/) DEIKMAN J.  
 (FENG/) FENG P C C.  
 (FINC/) FINCHER K L.  
 (ZIEG/) ZIEGLER T E.  
 Deikman J, Feng PCC, Fincher KL, Ziegler TE;  
 WPI; 2004-479808/45.  
 New isolated nucleic acid molecule that encodes a plant protein or its fragment, useful for isolating a variety of agronomically significant genes associated with plant growth, quality or yield, and as molecular





CC sequence represents cDNA encoding a human ovarian antigen of the  
CC invention. Note: The sequence data for this patent did not form part of  
CC the printed specification, but was obtained in electronic format directly  
CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 705 BP; 271 A; 114 C; 126 G; 187 T; 0 U; 7 Other;  
  
Query Match 3.0%; Score 66.8; DB 6; Length 705;  
Best Local Similarity 77.7%; Pred. No. 0.00013;  
Matches 80; Conservative 0; Mismatches 23; Indels 0; Gaps 0;  
  
QY 2140 TCCTTTTATCTTATTAAATAAATGTTGGTCTCCACCACTGCTCCCAAAAAA 2199  
DB 535 TACTTTTGACCATGAGTAACTTGGAGGCTCTTGCAGAACCATGAAAGAAAAA 594  
  
QY 2200 AAAAAA 2242  
DB 595 AAAAAA 637  
  
RESULT 274  
AAS02661  
ID AAS02661 standard; cDNA; 1365 BP.  
AC AAS02661;  
XX  
XX 18-JUL-2001 (first entry)  
XX Human secreted protein gene #22.  
XX  
XX Human secreted protein; autoimmune disorder; hyperproliferative disorder;  
KW cardiovascular disorder; cerebrovascular disorder; angiogenesis;  
KW nervous system disorder; bacterial infection; viral infection; ss;  
KW fungal infection; ocular disorder; wound healing; tissue regeneration;  
KW epithelial cell proliferation; skin ageing; chemotaxis; IGG Fc region.  
XX  
XX Homo sapiens.  
XX W0200123547-Al.  
XX  
XX 05-APR-2001.  
XX 26-SEP-2000; 2000WO-US026337.  
XX 27-SEP-1999; 99US-0155806P.  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX Komatsoulis GA, Ruben SM, Rosen CA;  
XX  
XX WPI; 2001-266151/27.  
XX P-PSDB; AAU01582, AAU01610.  
XX  
XX Nucleic acids encoding 26 human secreted polypeptides, useful for  
PT preventing, diagnosing and/or treating e.g. Gaucher's disease,  
PT Alzheimer's disease, Scimitar syndrome, Creutzfeldt-Jacob disease,  
PT diabetes mellitus and multiple sclerosis.  
XX  
XX Disclosure; Page 378; 412pp; English.  
XX  
XX Sequences AAS02631-AAS02665 represent isolated nucleic acid molecules and  
CC PCR primers of the invention. Secreted proteins and their related nucleic  
CC acids can be used in the diagnosis of or susceptibility to a pathological  
CC condition by determining the presence or absence of a mutation in a  
CC nucleic acid or the presence or amount of expression of a secreted  
CC protein. The sequences are used to prevent, treat or ameliorate a medical  
CC condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs,  
CC chickens or sheep. The antibodies to the polypeptides can also be used in  
CC alleviating symptoms associated with disorders and in diagnostic  
CC immunoassays e.g. radioimmunoassays or enzyme linked immunosorbent assays  
CC (ELISA). The disorders include autoimmune diseases e.g. rheumatoid  
CC arthritis, hyperproliferative disorders e.g. neoplasms of the breast or  
CC liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular

CC disorders e.g. cerebral ischaemia, angiogenesis, nervous system disorders  
CC e.g. Alzheimer's disease, infections caused by bacteria, viruses and  
CC fungi and ocular disorders e.g. corneal infection. The peptides can also  
CC be used to aid wound healing and epithelial cell proliferation, to help  
CC prevent skin ageing due to sunburn, to maintain organs before  
CC transplantation, to regenerate tissues, in chemotaxis and as a food  
CC additive or preservative to alter storage capabilities  
XX  
SQ Sequence 1365 BP; 419 A; 293 C; 261 G; 392 T; 0 U; 0 Other;  
  
Query Match 3.0%; Score 66.8; DB 4; Length 1365;  
Best Local Similarity 77.7%; Pred. No. 0.00017;  
Matches 80; Conservative 0; Mismatches 23; Indels 0; Gaps 0;  
  
QY 2140 TCCTTTTATCTTATTAAATAAATGTTGGTCTCCACCACTGCTCCCAAAAAA 2199  
DB 1201 TACTTTTGACCATGAGTAACTTGGAGGCTCTTGCAGAACCATGAAAGAAAAA 1260  
  
QY 2200 AAAAAA 2242  
DB 1261 AAAAAA 1303  
  
RESULT 275  
ABZ73522  
ID ABZ73522 standard; cDNA; 1365 BP.  
XX  
XX AC ABZ73522;  
XX  
XX 12-MAY-2003 (first entry)  
XX  
XX Secreted protein-encoding gene 242 cDNA clone HOFNU55, SEQ ID NO:252.  
DE Human; secreted protein; cancer; tumour; hyperproliferative disorder;  
XX autoimmune disorder; inflammation; angiogenic diseases; AIDS;  
KW acquired immunodeficiency syndrome; hepatitis; anaemia; wound healing;  
KW drug screening; chromosome identification; immunosome mapping;  
KW cytostatic; gene therapy; antiinflammatory; immunomodulator; anti-HIV;  
KW antianaemic; vulnery; chromosome 16q13; gene; ss.  
XX  
XX Homo sapiens.  
XX  
XX W0200277013-A2.  
XX  
XX 03-OCT-2002.  
XX  
XX 26-MAR-2002; 2002WO-US009370.  
XX  
XX 27-MAR-2001; 2001US-0278650P.  
XX 12-SEP-2001; 2001US-00950082.  
XX 12-SEP-2001; 2001US-00950083.  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Rosen CA, Ruben SM;  
XX WPI; 2003-040578/03.  
XX P-PSDB; ABR01188.  
XX  
XX New human secreted proteins and nucleic acids, useful for detecting or  
PT treating cancer or other hyperproliferative disorders, autoimmune  
PT disorders, inflammatory disorders, HIV disease, hepatitis or anemia.  
XX  
XX Claim 21; Page 1286; 2474pp; English.  
XX  
XX ABZ73281-ABZ73697 represent cDNAs corresponding to 391 human secreted  
CC protein genes, and ABZ00947-ABP01363 represent the proteins they encode.  
CC ABZ73698-ABZ74687 represent human secreted protein genomic fragments. The  
CC invention also encompasses antibodies specific for the secreted proteins,  
CC the use of the secreted proteins in drug screening and recombinant  
CC vectors and host cells comprising a nucleic acid of the invention. The  
CC secreted proteins are thought to be involved in biological activities  
CC associated with cellular signalling, cellular differentiation, cell



CC migration, prohormone activation and neurotransmitter activity. The  
 CC secreted proteins, nucleic acids encoding them, antibodies or antibody  
 CC fragments specific for the secreted proteins, and modulators of protein  
 CC activity are useful for diagnosing or treating cancers or other  
 CC hyperproliferative disorders. Additionally, the secreted proteins and  
 CC their nucleic acids may also be used in the treatment of autoimmune  
 CC disorders, inflammatory disorders, diseases involving angiogenesis, AIDS  
 CC (acquired immunodeficiency syndrome), hepatitis, anaemia, and to promote  
 CC wound healing. Nucleic acids of the invention may be used for chromosome  
 CC identification, chromosome mapping, in gene therapy, for identifying  
 CC individuals from minute biological samples, as hybridisation probes, and  
 CC as molecular weight markers. The present sequence represents a human  
 CC secreted protein-encoding cDNA clone of the invention  
 XX

Query Match 3.0%; Score 66.8; DB 8; Length 1365;  
 Best Local Similarity 77.7%; Pred. No. 0.00017;  
 Matches 80; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

Qy 2140 TCCTTTTATCTATTATAATAAATGTTGGTCTCCACCACCTGCTCCCAAAAAA 2199  
 Db 1201 TACTTTTGACATGAGTAACTTGAGGTCTGTGCAAGAACCATGAAAAA 1260  
 Qy 2200 AAAAAA 2242  
 Db 1261 AAAAAA 1303

## RESULT 276

ID AB267129 standard; cDNA; 1365 BP.

AC AB267129;

XX 26-MAR-2003 (first entry)

XX Human secreted protein encoding cDNA SEQ ID NO 249.

XX Human; secreted protein; neurotropic; neuroprotective; cytostatic;  
 KW virucide; dermatological; immunosuppressive; antiinflammatory; anti-HIV;  
 KW vulnery; antibacterial; antiparkinsonian; antisickling; antianaemic;  
 KW antiarthritic; cancer; antirheumatic; hepatotropic; cerebroprotective;  
 KW antiinflammatory; antiallergic; antidiabetic; antitumor; anticonvulsant;  
 KW antifungal; antiparasitic; cardiant; immune disorder; infection; vaccine;  
 KW cardiovascular disorder; neurological disease; nephrotropic;  
 KW gene therapy; gene; chromosome 16q13; ds.

XX Homo sapiens.

XX WO200277186-A2.

XX 03-OCT-2002.

XX 26-MAR-2002; 2002WO-US009188.

XX 27-MAR-2001; 2001US-0278650P.

XX 12-SEP-2001; 2001US-00950082.

XX 12-SEP-2001; 2001US-00950083.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Rosen CA, Ruben SM;

XX WPI; 2003-040583/03.

XX P-PSDB; ABP99708.

XX New human secreted proteins encoded by genes contained in cDNA clones  
 PT (e.g. HGAC19), useful for preventing, treating or diagnosing e.g. AIDS,  
 PT multiple sclerosis, herpes virus, leukemia, tick-borne encephalitis or  
 PT West Nile fever.

XX Claim 7; Page 1301; 2423pp; English.

XX The invention relates to novel human genes (ABZ66891-ABZ68209) and the  
 CC encoded secreted proteins (ABP99470-ABP99872) useful for preventing,  
 CC treating or ameliorating medical conditions e.g. by protein or gene  
 CC therapy. The genes are isolated from a range of human tissues disclosed  
 CC in the specification. The nucleic acids, proteins, antibodies and  
 CC (ant)agonists are useful in the diagnosis, treatment and prevention of:  
 CC (a) cancer, e.g. breast and ovarian cancer and other cancers of the  
 CC adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver,  
 CC lung or urogenital; (b) immune disorders e.g. Addison's disease,  
 CC allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis,  
 CC diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid  
 CC arthritis and ulcerative colitis; (c) cardiovascular disorders such as  
 CC myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g.  
 CC cerebral anoxia and epilepsy; and (f) infectious diseases such as viral,  
 CC bacterial, fungal and parasitic infections  
 XX

SQ Sequence 1365 BP; 419 A; 293 C; 261 G; 392 T; 0 U; 0 Other;

Query Match 3.0%; Score 66.8; DB 10; Length 1365;  
 Best Local Similarity 77.7%; Pred. No. 0.00017;  
 Matches 80; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

Qy 2140 TCCTTTTATCTATTATAATAAATGTTGGTCTCCACCACCTGCTCCCAAAAAA 2199  
 Db 1201 TACTTTTGACATGAGTAACTTGAGGTCTGTGCAAGAACCATGAAAAA 1260  
 Qy 2200 AAAAAA 2242  
 Db 1261 AAAAAA 1303

## RESULT 277

ID ADE79073 standard; DNA; 2187 BP.

AC ADE79073;

XX 29-JAN-2004 (first entry)

XX Human protein modification and maintenance molecule (PMM)-53 gene.

XX protein modification and maintenance molecule; PMM;  
 KW protein modification; protein maintenance; protein function;  
 KW protein conformation; protein stabilisation; protein degradation; kinase;  
 KW phosphatase; protease; protease inhibitor; isomerase; transferase;  
 KW molecular chaperone; anti-HIV; antiallergic; anticonvulsant;  
 KW antianaemic; antiparkinsonian; neurotropic; anticonvulsant;  
 KW antiarteriosclerotic; antiasthmatic; immunosuppressive; antithyroid;  
 KW cytostatic; hepatotropic; dermatological; antidiabetic; nephrotropic;  
 KW antitumor; thyromimetic; neuroprotective; osteopathic; antiarthritic;  
 KW antiparasitic; antihelminthic; antipsoptic; uropathic; ophthalmological;  
 KW antirheumatic; haemostatic; antibacterial; virucide; protozoacide;  
 KW fungicide; gene therapy; cell proliferative disorder; arteriosclerosis;  
 KW hepatitis; polycythaemia vera; psoriasis; primary thrombocytopaenia;  
 KW cancer; developmental disorder; anaemia; mental retardation;  
 KW neurological disorder; Alzheimer's disease; Parkinson's disease;  
 KW epilepsy; autoimmune disorder; inflammatory disorder; AIDS; allergies;  
 KW asthma; autoimmune thyroiditis; Crohn's disease; diabetes mellitus;  
 KW glomerulonephritis; Goodpasture's syndrome; multiple sclerosis;  
 KW arthritis; osteoporosis; pancreatitis; Sjogren's syndrome;  
 KW microbial infection; human; gene; ds.

XX Homo sapiens.

XX WO2003063688-A2.

XX 07-AUG-2003.

XX 23-JAN-2003; 2003WO-US002500.

XX 25-JAN-2002; 2002US-0351928P.

XX 25-FEB-2002; 2002US-0359903P.

```
PR 21-MAR-2002; 2002US-0366837P.
XX (INCY-) INCYTE GENOMICS INC.
XX
XX Hafalia AJA, Li JX, Gorvad AE, Chawla NK, Sprague WM, Lee SY;
PI Chang H, Elliott VS, Rankumar J, Khare R, Emerling BM, Kable AE;
PI Tang YT, Yue H, Gietzen KJ, Lee S, Swarnakar A, Baughn MR;
PI Wilson AD, Jin P, Chien D, Hawkins PR, Jiang X, Jackson RA;
PI Bhatia U, Burrill JD, Blake JJ, Ho A, Zheng W, Ison CH, Marquis JP;
PI Tran UK, Lal PG, Warren BA, Xu Y, Honchell CD, Becha SD;
PI Lehr-Wason PM;
XX WPI: 2003-636761/60.
DR P-PSDB; ADE79015.
DR
XX New human protein modification and maintenance molecules and
PT polynucleotides, useful for diagnosing, treating or preventing autoimmune
PT or inflammatory disorders (e.g. AIDS, allergy or anemia), multiple
PT sclerosis or cancer.
XX
XX Claim 5; SEQ ID NO 111; 405pp; English.
XX
XX This invention relates to novel isolated human proteins, which are human
CC protein modification and maintenance molecules (PMW). The cellular
CC processes regulating modification and maintenance of protein molecules
CC coordinate their function, conformation, stabilisation and degradation.
CC Each of these processes is mediated by key enzymes or proteins such as
CC kinases, phosphatases, proteases, protease inhibitors, isomerases,
CC transferases and molecular chaperones. Compounds which modulate the
CC proteins of the invention may have anti-HIV, anti-allergic,
CC anti-inflammatory, anti-anaemic, anti-parkinsonian, neurotropic,
CC anticonvulsant, anti-arteriosclerotic, antiasthmatic, immunosuppressive,
CC antithyroid, cyrostatic, hepatotropic, dermatological, antidiabetic,
CC nephrotropic, antigout, thyromimetic, neuroprotective, osteopathic,
CC antiarthritic, antiparastitic, antihelminthic, antipsoriatic, uropathic,
CC ophthalmological, antirheumatic, haemostatic, antibacterial, virucide,
CC protozoacide or fungicide activities. The DNA sequence which encode the
CC proteins of the invention may be useful for gene therapy. The human
CC protein modification and maintenance molecules (PMWs), the DNA sequences
CC which encode them and their modulating compounds are useful for
CC diagnosing, treating or preventing disorders associated with aberrant
CC expression of PMW, particularly cell proliferative disorders (for
CC example arteriosclerosis, hepatitis, polycythaemia vera, psoriasis,
CC primary thrombocytopaenia or cancer), developmental disorders (for
CC example anaemia or mental retardation), neurological disorders (for
CC example Alzheimer's disease, Parkinson's disease or epilepsy),
CC autoimmune/inflammatory disorders (for example AIDS, allergies, asthma,
CC autoimmune thyroiditis, Crohn's disease, diabetes mellitus,
CC glomerulonephritis, Goodpasture's syndrome, multiple sclerosis,
CC arthritis, osteoporosis, pancreatitis, Sjogren's syndrome) or microbial
CC infections. The present sequence is that of a DNA sequence which encodes
CC a human PMW of the invention.
XX
XX Sequence 2187 BP; 588 A; 641 C; 454 G; 504 T; 0 U; 0 Other;
SQ
Query Match 3.0%; Score 66.8; DB 10; Length 2187;
Best Local Similarity 72.3%; Pred. No. 0.00019;
Matches 86; Conservative 0; Mismatches 33; Indels 0; Gaps 0;
QY 2124 TGGCTTACCACTCTTTCCTTTATCTATTAATAAAATGTTGGTCTCCACCAGTNCCT 2183
Db 1881 TGGCTTCATAATTTTAAATTTGTAACATTTATACGAATAAATGTCAGCATTTATC 1940
QY 2184 CCAAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242
Db 1941 ACTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1999
RESULT 278
AAD07661
ID AAD07661 standard; cDNA; 2329 BP.
XX
AC AAD07661;
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XX
DT 10-AUG-2001 (first entry)
XX
DE Human secreted protein-encoding gene 7 cDNA clone HNTDL21, SEQ ID NO:17.
XX
KW Human; secreted protein; proliferative disorder; cancer; tumour; asthma;
KW foetal abnormality; developmental abnormality; haematopoietic disorder;
KW immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;
KW Parkinson's disease; cognitive disorder; schizophrenia; skin disorder;
KW psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder;
KW inflammation; neurological disorder; Alzheimer's disease; food additive;
KW angiogenic disorder; kidney disorder; gastrointestinal disorder; allergy;
KW pregnancy-related disorder; endocrine disorder; infection; wound healing;
KW cell culture; chemotaxis; vulnery; binding partner identification;
KW gene therapy; ss.
XX
XX Homo sapiens.
OS
XX
PH Key Location/Qualifiers
FT CDS 155..505
FT /tag= a
FT /product= "Human secreted protein precursor"
FT sig_peptide 155..232
FT /tag= b
FT mat_peptide 233..502
FT /tag= c
FT /product= "Mature human secreted protein"
XX
XX WO200134644-A1.
XX
XX 17-MAY-2001.
XX
XX 08-NOV-2000; 2000WO-US030679.
XX
XX 12-NOV-1999; 99US-0164834P.
XX 04-AUG-2000; 2000US-0224007P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Ruben SM, Komatsoulis GA, Olesen HS, Duan RD, Ebner R;
PI WPI; 2001-329070/34.
XX P-PSDB; AAE03208.
XX
XX Isolated nucleic acid molecule encoding a human secreted protein is used
XX in preventing, treating or ameliorating a medical condition.
XX
XX Claim 1; Page 398; 499pp; English.
XX
XX AAD07655-AAD07695 represent cDNAs corresponding to 15 human secreted
XX protein genes, and AAE03202-AAE03242 represent the proteins they encode.
XX AAE03243-AAE03280 represent human secreted protein fragments or variants.
XX The secreted proteins and their genes are useful for preventing, treating
XX or ameliorating medical conditions, e.g., by protein or gene therapy.
XX Pathological conditions can be diagnosed by determining the amount of the
XX new protein in a sample or by determining the presence of mutations in
XX the new genes. Specific uses are described for each of the 15 genes,
XX based on the tissues in which they are most highly expressed, and include
XX developing products for the diagnosis or treatment of proliferative
XX disorders, cancer, tumours, foetal and developmental abnormalities,
XX haematopoietic disorders, diseases of the immune system, AIDS, autoimmune
XX diseases (e.g., rheumatoid arthritis), inflammation, allergies,
XX neurological disorders (e.g., Alzheimer's disease, Parkinson's disease),
XX cognitive disorders, schizophrenia, asthma, skin disorders (e.g.,
XX psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,
XX angiogenic disorders, kidney disorders, gastrointestinal disorders,
XX pregnancy-related disorders, endocrine disorders, and infections. The
XX proteins can also be used to aid wound healing and epithelial cell
XX proliferation, to prevent skin aging due to sunburn, to maintain organs
XX before transplantation, for supporting cell culture of primary tissues,
XX to regenerate tissues, to identify their cognate ligands or binding
XX partners, and in chemotaxis, and can be used as a food additive or
XX preservative to modify storage properties. Antibodies specific for a
```



PA (HUMA-) HUMAN GENOME SCI INC.  
XX Birse CE, Rosen CA;  
XX WPI; 2002-147878/19.  
DR P-PSDB; ABP41265.  
XX  
PT Isolated nucleic acid molecules encoding novel ovarian polypeptides,  
PT useful in the prevention, treatment and diagnosis of cancer (e.g. ovarian  
PT cancer), immune disorders, cardiovascular disorders and neurological  
PT diseases.  
XX  
XX Claim 1; SEQ ID NO 222; 2922pp; English.  
XX  
XX The invention relates to 2175 novel human ovarian antigens (ABP41054-  
CC ABP43228) and to cDNAs encoding them (ABQ54131-ABQ56305), and also  
CC encompasses polypeptides 90% identical and polynucleotides 95% identical  
CC to the sequences of the invention. The invention additionally relates to  
CC recombinant vectors and host cells comprising human ovarian antigen  
CC polynucleotides, antibodies against human ovarian antigens, and the use  
CC of ovarian antigen polynucleotides and polypeptides in diagnosing,  
CC treating, prognosing or preventing various ovary and/or breast-related  
CC disorders. Such conditions include ovarian cancer and breast cancer, and  
CC metastatic tumours of ovarian or breast origin, reproductive system  
CC disorders (e.g., infertility, disorders of pregnancy, anovulation,  
CC polycystic ovary syndrome, ovarian cysts, and dysmenorrhoea), endocrine  
CC disorders, infections (e.g., chlamydia, HIV, toxoplasmosis, and toxic  
CC shock syndrome), inflammatory conditions (e.g., mastitis, oophoritis and  
CC vaginitis), immune disorders (e.g., congenital and acquired  
CC immunodeficiencies, autoimmune oophoritis, systemic lupus erythematosus),  
CC blood-related disorders (e.g., anaemia), cardiovascular disorders,  
CC respiratory disorders, neurological disorders, gastrointestinal disorders  
CC and urinary system disorders. Ovarian antigen polypeptides and  
CC polynucleotides may also be used in screening for compounds which  
CC modulate ovarian antigen expression or activity. The polynucleotides may  
CC further be used for gene therapy, chromosome mapping, in the  
CC identification of individuals and in forensic analysis, and the  
CC polypeptides may be used as food additives or to prepare antibodies  
CC useful in disease diagnosis, drug targeting and phenotyping. The present  
CC sequence represents cDNA encoding a human ovarian antigen of the  
CC invention. Note: The sequence data for this patent did not form part of  
CC the printed specification, but was obtained in electronic format directly  
CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences  
XX  
XX Sequence 2755 BP; 751 A; 749 C; 523 G; 728 T; 0 U; 4 Other;  
SQ  
Query Match 3.0%; Score 66.8; DB 6; Length 2755;  
Best Local Similarity 66.4%; Pred. No. 0.00021;  
Matches 95; Conservative 0; Mismatches 48; Indels 0; Gaps 0;  
QY 2100 AATCATTCATCCATGATCGCTTTCCTTTTACCACTCTTTCCTTTTATCTTTATTAATAA 2159  
DB 2583 ATTTATTTAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAA 2642  
QY 2160 AAATGTTGGTCTCCACCACTGCTCCCAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAA 2219  
DB 2643 ACCCGGTTTTTCAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAA 2702  
QY 2220 AAAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 2242  
DB 2703 AAAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 2725  
RESULT 281  
AAF18172  
ID AAF18172 standard; DNA; 3144 BP.  
XX AAF18172;  
AC  
XX 14-MAR-2001 (first entry)  
DT  
XX Lung cancer associated polynucleotide sequence SEQ ID 191.  
DE  
XX

KW Human; lung cancer associated protein; neuroprotective; cytosstatic;  
KW cardioactive; immunomodulatory; muscular active; vulnerary;  
KW gastrointestinal; nephrotropic; antiinfective; gynecological;  
KW antibacterial; diagnosis; neural disorder; immune disorder; reproductive;  
KW proliferative disorder; wound healing; infectious disease; ds.  
XX  
XX Homo sapiens.  
XX  
XX WO2000055180-A2.  
XX  
XX 21-SEP-2000.  
XX  
XX 08-MAR-2000; 2000WO-US005918.  
XX  
XX 12-MAR-1999; 99US-0124270P.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
PA (ROSE-) ROSEN C A.  
XX  
XX Ruben SM;  
XX  
XX WPI; 2000-587514/55.  
XX P-PSDB; AAB58296.  
DR  
XX Lung cancer associated gene sequences, referred to as lung cancer  
XX antigens, useful for treatment, prevention, and diagnosis of disorders  
XX such as lung cancer.  
XX  
XX Claim 1; Page 656-657; 1425pp; English.  
XX  
XX Polynucleotide sequences AAF17982 - AAF18424 encode human lung cancer  
XX associated proteins represented in AAB58106 - AAB58548. Lung cancer  
XX associated proteins and polynucleotide sequences, their agonists, and  
XX antagonists may have neuroprotective; cytosstatic; cardioactive;  
XX immunomodulatory; muscular active general; vulnerary; gastrointestinal  
XX general; nephrotropic; antiinfective; gynecological; or antibacterial  
XX activity. The invention also includes antibodies specific for the protein  
XX or polynucleotide sequences. The lung cancer associated polynucleotide  
XX sequences may be used for detection of lung cancer, chromosome  
XX identification, as chromosome markers, and for numerous other diagnostic  
XX or research purposes. The proteins may be used to treat disorders such as  
XX neural, immune, muscular, reproductive, gastrointestinal, pulmonary,  
XX cardiovascular, renal, and proliferative disorders. The proteins may also  
XX be used in the treatment of wounds and infectious diseases.  
XX Polynucleotide sequences AAF18425 - AAF18433 and peptide AAB58549 are  
XX used in the course of the invention for the identification and  
XX characterisation of the polynucleotide and protein sequences  
XX  
XX Sequence 3144 BP; 835 A; 877 C; 631 G; 796 T; 0 U; 5 Other;  
SQ  
Query Match 3.0%; Score 66.8; DB 3; Length 3144;  
Best Local Similarity 66.4%; Pred. No. 0.00022;  
Matches 95; Conservative 0; Mismatches 48; Indels 0; Gaps 0;  
QY 2100 AATCATTCATCCATGATCGCTTTCCTTTTACCACTCTTTCCTTTTATCTTTATTAATAA 2159  
DB 2971 ATTTATTTAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAA 3030  
QY 2160 AAATGTTGGTCTCCACCACTGCTCCCAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAA 2219  
DB 3031 ACCCGGTTTTTCAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAA 2242  
QY 2220 AAAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 2242  
DB 3091 AAAAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 3113  
RESULT 282  
ABK28362/c  
ID ABK28362 standard; DNA; 6155 BP.  
XX  
XX ABK28362;  
XX

DT 23-APR-2002 (first entry)  
 XX DNA transcription associated complementary genomic DNA #118.  
 DE  
 DE  
 KW DNA transcription associated gene; peptide nucleic acid; PNA-oligomer;  
 KW PNA; cytosine methylation state; SNP; retroviral infection; gene; ds;  
 KW single nucleotide polymorphism; adenosine deaminase deficiency; cancer;  
 KW viral infection; Sezary syndrome; haematological disorder; tuberculosis;  
 KW immunological disorder; Werner syndrome; developmental disorder;  
 KW psoriasis; Rieger's syndrome; neurological disorder; erythropoiesis;  
 KW neurodegenerative disorder; Waardenburg syndrome; Niemann-Pick disease;  
 KW myelodysplastic syndrome; myocardial infarction; hypertension; arthritis;  
 KW angiodysplasia; congenital heart disease; HDR syndrome; gene therapy;  
 KW polyglutamine disorder; solid tumour.  
 XX  
 OS Unidentified.  
 XX  
 XX WO200192565-A2.  
 PN  
 PN  
 PD 06-DEC-2001.  
 XX  
 XX 06-APR-2001; 2001WO-EP003973.  
 XX  
 XX 06-APR-2000; 2000DE-01019058.  
 PR 07-APR-2000; 2000DE-01019173.  
 PR 30-JUN-2000; 2000DE-01032529.  
 PR 01-SEP-2000; 2000DE-01043826.  
 XX  
 PA (EPIG-) EPIGENOMICS AG.  
 XX  
 XX Olek A, Piepenbrock C, Berlin K;  
 PI  
 XX WPI; 2002-090046/12.  
 XX  
 XX New nucleic acids or oligomers, useful for diagnosing or treating  
 PT diseases associated with DNA transcription, e.g. immunological disorders,  
 PT Werner syndrome, psoriasis, myocardial infarction, solid tumors or  
 PT cancer.  
 XX  
 PS Claim 1; SEQ ID NO 236; 32pp; English.  
 XX  
 CC The invention relates to a nucleic acid, which comprises a segment of the  
 CC chemically pretreated DNA of genes associated with DNA transcription from  
 CC one of 346 sequences, and an oligomer, in particular an oligonucleotide  
 CC or peptide nucleic acid (PNA)-oligomer that hybridises to or is identical  
 CC to the chemically pretreated DNA of genes associated with DNA  
 CC transcription. The set of oligomer probes are useful for detecting the  
 CC cytosine methylation state and/or single nucleotide polymorphisms (SNPs)  
 CC in a chemically pretreated genomic DNA. The nucleic acids are useful for  
 CC diagnosing or treating diseases associated with DNA transcription  
 CC (particularly with the methylation status), e.g. adenosine deaminase  
 CC deficiency, viral infection, retroviral infection, Sezary syndrome,  
 CC haematological disorders, immunological disorders, Werner syndrome,  
 CC tuberculosis, developmental disorders, psoriasis, Rieger's syndrome,  
 CC neurological disorders, neurodegenerative disorders, Waardenburg  
 CC syndrome, Niemann-Pick disease, myelodysplastic syndrome, myocardial  
 CC infarction, hypertension, angiodysplasia, erythropoiesis, congenital heart  
 CC disease, HDR syndrome, arthritis, polyglutamine disorders, solid tumours  
 CC or cancer. Sequences ABK28127-ABK28472 represent DNA transcription  
 CC associated genomic DNA molecules of the invention. Note: The sequence  
 CC data for this patent did not form part of the printed specification but  
 CC was obtained in electronic format directly from the European Patent  
 CC Office  
 XX  
 SQ Sequence 6155 BP; 1620 A; 137 C; 1268 G; 3130 T; 0 U; 0 Other;  
 Query Match 3.0%; Score 66.8; DB 6; Length 6155;  
 Best Local Similarity 81.1%; Pred. No. 0.00027;  
 Matches 77; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

Qy 2148 TCTTATTATATAAATGTGTCTCCACCTGCTCCCAAAAAA  
 DB 1236 TCTAACTACGACATATCTACGCTCTACTCTAAAAA  
 1177

OY 2208 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242  
 DB 1176 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1142  
 RESULT 283  
 ADI73348/c  
 ID ADI73348 standard; DNA; 291 BP.  
 XX  
 AC ADI73348;  
 XX  
 DT 20-MAY-2004 (first entry)  
 XX  
 DE Human ovarian cancer DNA marker #6090.  
 KW Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.  
 XX  
 OS Homo sapiens.  
 PN WO200170979-A2.  
 PD 27-SEP-2001.  
 XX  
 XX 21-MAR-2001; 2001WO-US009126.  
 PR 21-MAR-2000; 2000US-0191031P.  
 PR 25-MAY-2000; 2000US-0207124P.  
 PR 15-JUN-2000; 2000US-0211940P.  
 PR 07-JUL-2000; 2000US-0216820P.  
 PR 25-JUL-2000; 2000US-0220661P.  
 PR 21-DEC-2000; 2000US-0257672P.  
 XX  
 PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.  
 XX  
 PI Lee J, Lillie J;  
 XX WPI; 2001-611502/70.  
 XX  
 PT Novel isolated nucleic acid molecules (markers) overexpressed in ovarian  
 PT cancer cells as compared to their normal non-cancerous ovarian cells are  
 PT used to characterize stage, grade, histological type of ovarian cancer.  
 PS Disclosure; SEQ ID NO 6090; 106pp; English.  
 XX  
 CC The invention relates to nucleic acid markers which are overexpressed in  
 CC ovarian cancer cells as compared to their expression in normal (i.e. non-  
 CC cancerous) ovarian cells. The invention also relates to polypeptides  
 CC encoded by the markers, antibodies that selectively bind to the  
 CC polypeptides, a method of inhibiting ovarian cancer in a patient at risk  
 CC of developing ovarian cancer involving inhibiting expression of a gene  
 CC corresponding to a marker of the invention and a method of treating a  
 CC patient afflicted with ovarian cancer comprising providing to cells of  
 CC the patient an antisense oligonucleotide complementary to a marker of the  
 CC invention. The markers are useful for assessing if a patient is afflicted  
 CC with ovarian cancer, which involves comparing the level of expression of  
 CC a marker in a patient sample and a normal level of expression of the  
 CC marker in a control non-ovarian cancer sample. A difference between the  
 CC expression levels indicates ovarian cancer. The level of expression of a  
 CC marker corresponds to a secreted protein or to a transcribed  
 CC polynucleotide or its portion. The level of expression of the marker is  
 CC assessed by detecting the presence in the sample, a protein or protein  
 CC fragment corresponding to the marker. The presence of protein or protein  
 CC fragment is detected using an antibody that specifically binds with the  
 CC protein or protein fragment. Alternatively, the level of expression of  
 CC the marker is assessed by detecting the presence of a transcribed  
 CC polynucleotide which anneals with the marker or anneals with a portion of  
 CC the polynucleotide comprising the marker, under stringent conditions. The  
 CC marker is also used for monitoring the progression of ovarian cancer in a  
 CC patient which involves detecting expression of the marker in a patient  
 CC sample at a first point in time, repeating the method at a subsequent  
 CC time and comparing the level of expression. The method is carried out  
 CC using an ovarian tissue sample. A composition comprising a marker,

CC polynucleotide or its portion. The level of expression of the marker is assessed by detecting the presence in the sample, a protein or protein fragment corresponding to the marker. The presence of protein or protein fragment is detected using an antibody that specifically binds with the protein or protein fragment. Alternatively, the level of expression of the marker is assessed by detecting the presence of a transcribed polynucleotide which anneals with the marker or anneals with a portion of the polynucleotide comprising the marker, under stringent conditions. The marker is also used for monitoring the progression of ovarian cancer in a patient which involves detecting expression of the marker in a patient sample at a first point in time, repeating the method at a subsequent time and comparing the level of expression. The method is carried out using an ovarian tissue sample. A composition comprising a marker, polypeptide or antibody of the invention is used to treat ovarian cancer. This sequence represents a human ovarian cancer DNA marker of the invention. Note: the sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published\\_pct\\_sequences](http://ftp.wipo.int/pub/published_pct_sequences).

XX  
SQ Sequence 291 BP; 85 A; 17 C; 25 G; 133 T; 0 U; 31 Other;

Query Match 3.0%; Score 66.6; DB 5; Length 291;  
Best Local Similarity 72.9%; Pred. No. 0.00011;  
Matches 78; Conservative 0; Mismatches 29; Indels 0; Gaps 0;

QY 2136 TCCTTCCTTTTACTATTAAATAAATGTTGGTCTCCACACTGCCTCCCAAAAAAAA 2195  
DB | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||  
165 TTTTNCCTTTATNANNNAATAATAATTNNATTAAANAATATTNATNAAAAAAAAA 106

QY 2196 AA 2242  
DB 105 AA 59

RESULT 285  
ABK09625  
ID ABK09625 standard; cDNA; 310 BP.  
AC ABK09625;  
XX  
DT 14-MAR-2002 (first entry)  
XX  
DE Human ovarian tumour protein encoding cDNA #162.  
XX  
KW Human; ovarian tumour protein; cancer; cytostatic; immunostimulant; ss;  
KW gene therapy; CD4+ T cell; CD8+ T cell; PCR primer.  
XX  
OS Homo sapiens.  
XX  
PN WO200190154-A2.  
XX  
PD 29-NOV-2001.  
XX  
PF 23-MAY-2001; 2001WO-US016895.  
XX  
PR 24-MAY-2000; 2000US-0207107P.  
PR 13-JUN-2000; 2000US-0211457P.  
PR 21-JUN-2000; 2000US-0213673P.  
PR 03-AUG-2000; 2000US-0223288P.  
PR 01-MAR-2001; 2001US-0272790P.  
XX  
PA (CORI-) CORIXA CORP.  
XX  
PI Xu J, Mitcham JL, Harlocker SL, Dillon DC, Secrist H, Lodes MJ;  
PI Algate PA, Fling SP, Mannion J, Benson DR, Carter D;  
DR WPI; 2002-097641/13.  
XX  
FT New isolated polynucleotide encoding polypeptide comprising portion of  
PT ovarian tumor protein, useful for detection, diagnosis and therapy of  
PT human ovarian cancer.  
XX  
XX Claim 1; Page 176; 285pp; English.

The invention relates to an isolated polynucleotide encoding a polypeptide comprising a portion of an ovarian tumour protein. The sequences of the invention are useful for stimulating an immune response and for treating ovarian cancer in a patient. An antigen presenting cell that expresses the sequences is useful for treating ovarian cancer by incubating CD4+ and/or CD8+ T cells isolated from a patient. The T cells can then be proliferated and administered to the patient to inhibit the development of cancer. The DNA sequences are useful as probes or primers for nucleic acid hybridisation, to direct expression of a polypeptide in appropriate host cells. Detecting the presence of a cancer in a patient involves obtaining a biological sample from the patient, contacting the biological sample with an agent that binds to the protein, detecting the amount of protein that binds to the agent, comparing the amount of protein to a predetermined cut-off value and determining the presence of cancer. Sequences ABK09464-ABK09802 represent PCR primers and cDNA molecules encoding ovarian tumour proteins of the invention

Sequence 310 BP; 144 A; 58 C; 43 G; 64 T; 0 U; 1 Other;

RESULT 286	
ADL43918/c	
ID	ADL43918 standard; DNA; 390 BP.
XX	
AC	ADL43918;
XX	
DT	20-MAY-2004 (first entry)
XX	
DE	Human ovarian cancer DNA marker #17808.
XX	
KW	Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.
XX	
OS	Homo sapiens.
XX	
PN	WO200170979-A2.
XX	
PD	27-SEP-2001.
XX	
PF	21-MAR-2001; 2001WO-US009126.
XX	
PR	21-MAR-2000; 2000US-0191031P.
PR	25-MAY-2000; 2000US-0207124P.
PR	15-JUN-2000; 2000US-0211940P.
PR	07-JUL-2000; 2000US-0216820P.
PR	25-JUL-2000; 2000US-0220661P.
XX	21-DEC-2000; 2000US-0257672P.
XX	
PA	(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX	
PI	Lee J, Lillie J;
XX	
DR	WPI; 2001-611502/70.
XX	
PT	Novel isolated nucleic acid molecules (markers) overexpressed in ovarian
PT	cancer cells as compared to their normal non-cancerous ovarian cells are
PT	used to characterize stage, grade, histological type of ovarian cancer.
XX	
PS	Disclosure; SEQ ID NO 17808; 106pp; English.
XX	
CC	The invention relates to nucleic acid markers which are overexpressed in

ovarian cancer cells as compared to their expression in normal (i.e. non-cancerous) ovarian cells. The invention also relates to polypeptides encoded by the markers, antibodies that selectively bind to the polypeptides, a method of inhibiting ovarian cancer in a patient at risk of developing ovarian cancer involving inhibiting expression of a gene corresponding to a marker of the invention and a method of treating a patient afflicted with ovarian cancer comprising providing to cells of the patient an antisense oligonucleotide complementary to a marker of the invention. The markers are useful for assessing if a patient is afflicted with ovarian cancer, which involves comparing the level of expression of a marker in a patient sample and a normal level of expression of the marker in a control non-ovarian cancer sample. A difference between the expression levels indicates ovarian cancer. The level of expression of a marker corresponds to a secreted protein or to a transcribed polynucleotide or its portion. The level of expression of the marker is assessed by detecting the presence in the sample, a protein or protein fragment corresponding to the marker. The presence of protein or protein fragment is detected using an antibody that specifically binds with the protein or protein fragment. Alternatively, the level of expression of the marker is assessed by detecting the presence of a transcribed polynucleotide which anneals with the marker or anneals with a portion of the polynucleotide comprising the marker, under stringent conditions. The marker is also used for monitoring the progression of ovarian cancer in a patient which involves detecting expression of the marker in a patient sample at a first point in time, repeating the method at a subsequent time and comparing the level of expression. The method is carried out using an ovarian tissue sample. A composition comprising a marker, polypeptide or antibody of the invention is used to treat ovarian cancer. This sequence represents a human ovarian cancer DNA marker of the invention.

Sequence 390 BP: 117 A; 32 C; 47 G; 194 T; 0 U; 0 Other;

PR 07-JUL-2000; 2000US-0216820P.  
PR 25-JUL-2000; 2000US-0220661P.  
PR 21-DEC-2000; 2000US-0257672P.  
XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.  
XX Lee J, Lillie J;  
XX WPI; 2001-611502/70.  
XX Novel isolated nucleic acid molecules (markers) overexpressed in ovarian  
PT cancer cells as compared to their normal non-cancerous ovarian cells are  
PT used to characterize stage, grade, histological type of ovarian cancer.  
XX  
PS Disclosure; SEQ ID NO 17408; 106pp; English.  
XX  
CC The invention relates to nucleic acid markers which are overexpressed in  
CC ovarian cancer cells as compared to their expression in normal (i.e. non-  
CC cancerous) ovarian cells. The invention also relates to polypeptides  
CC encoded by the markers, antibodies that selectively bind to the  
CC polypeptides, a method of inhibiting ovarian cancer in a patient at risk  
CC of developing ovarian cancer involving inhibiting expression of a gene  
CC corresponding to a marker of the invention and a method of treating a  
CC patient afflicted with ovarian cancer comprising providing to cells of  
CC the patient an antisense oligonucleotide complementary to a marker of the  
CC invention. The markers are useful for assessing if a patient is afflicted  
CC with ovarian cancer, which involves comparing the level of expression of  
CC a marker in a patient sample and a normal level of expression of the  
CC marker in a control non-ovarian cancer sample. A difference between the  
CC expression levels indicates ovarian cancer. The level of expression of a  
CC marker corresponds to a secreted protein or to a transcribed  
CC polynucleotide or its portion. The level of expression of the marker is  
CC assessed by detecting the presence in the sample, a protein or protein  
CC fragment corresponding to the marker. The presence of protein or protein  
CC fragment is detected using an antibody that specifically binds with the  
CC protein or protein fragment. Alternatively, the level of expression of  
CC the marker is assessed by detecting the presence of a transcribed  
CC polynucleotide which anneals with the marker or anneals with a portion of  
CC the polynucleotide comprising the marker, under stringent conditions. The  
CC marker is also used for monitoring the progression of ovarian cancer in a  
CC patient which involves detecting expression of the marker in a patient  
CC sample at a first point in time, repeating the method at a subsequent  
CC time and comparing the level of expression. The method is carried out  
CC using an ovarian tissue sample. A composition comprising a marker,  
CC polypeptide or antibody of the invention is used to treat ovarian cancer.  
CC This sequence represents a human ovarian cancer DNA marker of the  
CC invention.  
XX  
SQ Sequence 445 BP; 153 A; 41 C; 56 G; 195 T; 0 U; 0 Other;  
Query Match 3.0%; Score 66.6; DB 5; Length 445;  
Best Local Similarity 69.2%; Pred. No. 0.00013;  
Matches 90; Conservative 0; Mismatches 40; Indels 0; Gaps 0;  
QY 2113 AATGATCGCTTCTTACACCTCTTCTCTTTTCTTATTAATAAAATGTTGCTC 2172  
DB 246 AATTTTCTTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTT 187  
QY 2173 CACCAGTCTGCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2232  
DB 186 TTTTCTTTTACCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATA 127  
QY 2233 AAAAAAATA 2242  
DB 126 AAAAAAATA 117  
RESULT 288  
ACN50953/c  
ID ACN50953 standard; cDNA; 458 BP.  
XX  
AC ACN50953;  
XX

DT 02-DEC-2004 (first entry)  
XX Cotton androecium tissue EST Clone ID: LIB3828-002-Q1-N6-E1, SEQ:5734.  
DE Cotton androecium tissue EST Clone ID: LIB3828-002-Q1-N6-E1, SEQ:5734.  
XX Cotton; plant; EST; expressed sequence tag; transgenic plant; androecium;  
KW variety Nucotton33B; library LIB3828; molecular tag; molecular marker;  
KW genetic mapping; molecular mapping; seed germination; plant growth;  
KW plant quality; plant yield; plant breeding; tissue printing; ss.  
XX  
OS Gossypium hirsutum.  
PN US2004123340-A1.  
XX  
PD 24-JUN-2004.  
XX  
PF 12-DEC-2001; 2001US-00021323.  
XX  
PR 14-DEC-2000; 2000US-0255619P.  
XX  
PA (DEIK/) DEIKMAN J.  
PA (FENG/) FENG P C C.  
PA (FINC/) FINCHER K L.  
PA (ZIEG/) ZIEGLER T E.  
XX  
PI Deikman J, Feng PCC, Fincher KL, Ziegler TE;  
XX WPI; 2004-479808/45.  
DR  
XX New isolated nucleic acid molecule that encodes a plant protein or its  
PT fragment, useful for isolating a variety of agronomically significant  
PT genes associated with plant growth, quality or yield, and as molecular  
PT tags to map genes.  
XX  
PS Claim 1; SEQ ID NO 5734; 34pp; English.  
XX  
CC The invention relates to 17880 cotton expressed sequence tags (ESTs;  
CC ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated  
CC from primed or non-primed seeds from variety DP50B, mature seeds from  
CC variety Coker 312 Boswell 96 Field, and androecium tissue, gynoecium  
CC tissue, developing fibres, carpel walls and septa from variety  
CC Nucotton33B. The invention also relates to substantially purified  
CC proteins or their fragments encoded by nucleic acid molecules of the  
CC invention, and to transformed plants having a nucleic acid construct  
CC comprising a nucleic acid of the invention. The cotton ESTs are useful as  
CC molecular tags to isolate genetic regions, to isolate genes, to map  
CC genes, to determine gene function and to determine whether genes are  
CC members of a particular gene family. The nucleic acid molecules may be  
CC used for isolating a variety of agronomically significant genes  
CC associated with plant growth, quality, yield, and could also serve as  
CC links in metabolic and catabolic pathways. The nucleic acid molecules are  
CC also useful for identifying genes important in initiating and maintaining  
CC seed germination or that may be used to mitigate stresses encountered  
CC during seed germination. The ESTs additionally enable the acquisition of  
CC promoters and cis-regulatory elements which will be useful to express  
CC agronomically significant genes in these tissues and/or other tissues,  
CC and also permits the acquisition of molecular markers useful in breeding  
CC schemes, genetic and molecular mapping, and in cloning of agronomically  
CC significant genes. The nucleic acid molecules are further useful for  
CC detecting the expression level or pattern of a protein or mRNA and for  
CC detecting the presence or quantity of a protein by tissue printing. The  
CC present sequence represents a specifically claimed EST isolated from a  
CC cotton variety Nucotton33B androecium tissue cDNA library (LIB3828). The  
CC sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from the US  
CC patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340  
XX  
SQ Sequence 458 BP; 151 A; 28 C; 63 G; 216 T; 0 U; 0 Other;  
Query Match 3.0%; Score 66.6; DB 13; Length 458;  
Best Local Similarity 79.6%; Pred. No. 0.00013;  
Matches 78; Conservative 0; Mismatches 20; Indels 0; Gaps 0;  
QY 2145 TTATCTTATTATAAAATGTTGGTCTCCACACTGCTCCCAAAAAAATAAAAAA 2204



Db 148 TTTCTTTTTTTTAAATAAATTAACCCCTCCCTCCCTCAAAAAAAAAAAAAAAAAAAAAA 89

Qy 2205 AA 2242

Db 88 AA 51

RESULT 289	
ACN56190	
ID ACN56190 standard; cdNA; 498 BP.	
XX	
XX AC ACN56190;	
XX	
XX DT 02-DEC-2004 (first entry)	
XX	
XX Cotton androecium tissue EST Clone ID: LIB3828-032-Q6-N6-H12, SEQ:10971.	
XX	
KW Cotton; plant; EST; expressed sequence tag; transgenic plant; androecium;	
KW variety Nu cotton33B; library LIB3828; molecular tag; molecular marker;	
KW genetic mapping; molecular mapping; seed germination; plant growth;	
KW plant quality; plant yield; plant breeding; tissue printing; ss.	
XX	
XX Gossypium hirsutum.	
OS	
XX US2004123340-A1.	
FN	
XX	
XX 24-JUN-2004.	
XX	
XX 12-DEC-2001; 2001US-00021323.	
PF	
XX	
XX 14-DEC-2000; 2000US-0255619P.	
PR	
XX (DEIK/) DEIKMAN J.	
PA (FENG/) FENG P C C.	
PA (FINC/) FINCHER K L.	
PA (ZIEG/) ZIEGLER T E.	
XX	
XX Deikman J, Feng PCC, Fincher KL, Ziegler TE;	
PI	
XX WPI; 2004-479808/45.	
DR	
XX	
XX New isolated nucleic acid molecule that encodes a plant protein or its	
PT fragment, useful for isolating a variety of agronomically significant	
PT genes associated with plant growth, quality or yield, and as molecular	
PT tags to map genes.	
XX	
XX Claim 1; SEQ ID NO 10971; 34pp; English.	
PS	

CC detecting the presence or quantity of a protein by tissue printing. The  
CC present sequence represents a specifically claimed EST isolated from a  
CC cotton variety Nuccotton33B and androecium tissue cDNA library (LIB3828). The  
CC sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from the US  
CC patent office at [seqdata.uspto.gov/sequence.html?DocID=US20040123340](http://seqdata.uspto.gov/sequence.html?DocID=US20040123340)  
XX

SQ Sequence 498 BP; 207 A; 78 C; 67 G; 146 T; 0 U; 0 Other;

Query Match 3.0%; Score 66.6; DB 13; Length 498;  
Best Local Similarity 69.2%; Pred. No. 0.00013;  
Matches 90; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

Qy 2113 AATGACGCGCTTTGGCTTTACCACTCTTCCTTTATCTATTATTAATAAAATGTTGGTCTC 2172  
Db 101 AATGATTCTACTTGTTCATATTTTCGTGTCATCTCTCTTTTGTGTTTATTTGAAATT 160  
Qy 2173 CACACTGNCCTCCAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2232  
Db 161 GAATGCTTTTATGCTAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 220  
Qy 2233 AAAAAAAAAA 2242  
Db 221 AAAAAAAAAA 230

RESULT 290  
ACN58226  
ID ACN58226 standard; cDNA; 591 BP.  
AC ACN58226;  
XX  
XX 02-DEC-2004 (first entry)  
DT  
DT  
DE Cotton gynoeonium tissue EST Clone ID: LIB3829-008-Q6-K6-G6, SEQ:13007.  
XX  
XX Cotton; plant; EST; expressed sequence tag; transgenic plant; gynoeonium;  
XX variety Nuccotton33B; library LIB3829; molecular tag; molecular marker;  
XX genetic mapping; molecular mapping; seed germination; plant growth;  
XX plant quality; plant yield; plant breeding; tissue printing; ss.  
XX Gossypium hirsutum.  
XX  
XX US2004123340-A1.  
XX  
XX 24-JUN-2004.  
XX  
XX 12-DEC-2001; 2001US-00021323.  
XX  
XX 14-DEC-2000; 2000US-0255619P.  
XX  
XX (DEIK/) DEIKMAN J.  
XX (FENG/) FENG P C C.  
XX (FINC/) FINCHER K L.  
XX (ZIEG/) ZIEGLER T E.  
XX  
XX Deikman J, Feng PCC, Fincher KL, Ziegler TE;  
XX  
XX WPI; 2004-479808/45.  
XX  
XX New isolated nucleic acid molecule that encodes a plant protein or its  
XX fragment, useful for isolating a variety of agronomically significant  
XX genes associated with plant growth, quality or yield, and as molecular  
XX tags to map genes.  
XX  
XX Claim 1; SEQ ID NO 13007; 34pp; English.  
XX  
XX The invention relates to 17880 cotton expressed sequence tags (ESTs;  
XX ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated  
XX from primed or non-primed seeds from variety DP50B, mature seeds from  
XX variety Coker 312 Boswell 96 Field, and androecium tissue, gynoeonium  
XX tissue, developing fibres, carpel walls and septa from variety  
XX Nuccotton33B. The invention also relates to substantially purified  
XX  
XX

CC The invention relates to an isolated polypeptide (I) associated with

CC breast cancer which is encoded by a nucleic acid molecule comprising a  
CC nucleotide sequence (S1). Further disclosed is an antibody that binds to  
CC the polypeptide of the invention. The activity of the polypeptide of the  
CC invention may be described as cytostatic. The antibody is useful for  
CC detecting the presence of (I) in a sample. Nucleic acid molecules of the  
CC invention are useful in the detection of breast tumours. (I) is useful as  
CC a marker for breast cancer and in breast cancer therapy. Sequences given  
CC in records ACN78851-ACN92934 represent nucleic acid markers associated  
CC with breast cancer. Note: The sequence listing does not form part of the  
CC specification but may be obtained in electronic format from the USPTO web  
CC site at [seqdata.uspto.gov/sequence.html?docID=20030099974](http://seqdata.uspto.gov/sequence.html?docID=20030099974)

XX Sequence 912 BP; 245 A; 101 C; 155 G; 212 T; 0 U; 199 Other;

Query Match 3.0%; Score 66.6; DB 11; Length 912;

Best Local Similarity 49.3%; Pred. No. 0.00016;

Matches 99; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

QY 2042 TTTGATGGCAATCACTCCGGTTTGGCTTCTAGGTCTCCTCAAGTCTCGTGACACATAA 2101

DB 321 TTTTNTTCCCGNANNNTGGCCNTCCNNNTTTTNGNGNAAATTTNNNNNNNTTAN 262

QY 2102 TCATTCCATCCATGATCGCTTTCCTTTACCACTCTTCTTTATCTTATTAATAAAA 2161

DB 261 AAAANNTTTNNNAANNCTNTTTTTTAAANACCCNTTTTCTCTTTTNTTNAACNC 202

QY 2162 ATGTTGGTCTCCACCACTGCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAA 2221

DB 201 CCNNNAATTTTNGNNNAATTCNNAAAAAATAAAAAAATAAAAAAATAAAAAA 142

QY 2222 AAAAAAATAAAAAAATAAAAAA 2242

DB 141 AAAAAAATAAAAAAATAAAAAA 121

RESULT 293

AAZ06226

ID AAZ06226 standard; DNA; 936 BP.

AC AAZ06226;

DT 30-SEP-1999 (first entry)

DE Human secreted protein gene No. 8.

XX Human; secreted protein; fusion protein; gene therapy; protein therapy;

XX diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaemia;

XX developmental abnormality; foetal deficiency; blood; allergy; renal; ds;

XX immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma;

XX inflammation; ischaemic shock; Alzheimer's disease; restenosis; AIDS;

XX cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus;

XX osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion;

XX endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm.

XX Homo sapiens.

OS WO9935158-A1.

XX 15-JUL-1999.

XX 06-JAN-1999; 99WO-US000108.

XX 07-JAN-1998; 98US-0070657P.

XX 07-JAN-1998; 98US-0070658P.

XX 07-JAN-1998; 98US-0070692P.

XX 07-JAN-1998; 98US-0070704P.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Ruben SM, Soppet DR, Ebner R, Lafleur DW, Ni J, Brewer LA;

XX Olsen HS, Duan RD, Rosen CA;

XX WPI; 1999-444190/37.

DR P-PSDB; AAY30393, AAY30445.

XX New isolated human genes and the secreted polypeptides they encode.

XX Claim 1; Page 154; 227pp; English.

XX This sequence represents a nucleic acid molecule which encodes a secreted

XX human protein. The gene number is given in the descriptor line. The gene

XX can be used to generate fusion proteins by linking to the gene to a human

XX immunoglobulin Fc portion (e.g. AAZ06210) for increasing the stability of

XX the fused protein as compared to the human protein only. The invention

XX relates to 36 novel genes and their fragments (nucleic acid sequences:

XX AAZ06219-206263; amino acid sequences AAY30386-Y30498) which are useful

XX for preventing, treating or ameliorating medical conditions e.g. by

XX protein or gene therapy. Also, pathological conditions can be diagnosed

XX by determining the amount of the new polypeptides in a sample or by

XX determining the presence of mutations in the new polynucleotides.

XX Specific uses are described for each of the 36 polynucleotides, based on

XX which tissues they are most highly expressed in (see AAZ06219 for

XX described uses)

XX Sequence 936 BP; 396 A; 136 C; 122 G; 278 T; 0 U; 4 Other;

Query Match 3.0%; Score 66.6; DB 2; Length 936;

Best Local Similarity 71.3%; Pred. No. 0.00016;

Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 2121 CCTTGGCTTACCACTCTTCTCTTATCTTATTAATAAAATGTGTCTCCACCATG 2180

DB 663 CTTTCTCTTCTTACCTCATCGTTTCTTTTAAATAAACTGCTCTTTGGACCAAA 722

QY 2181 NCTCCAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2240

DB 723 ACCTTAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 782

QY 2241 AA 2242

DB 783 AA 784

RESULT 294

AAZ33261

ID AAZ33261 standard; cDNA; 2022 BP.

AC AAZ33261;

DT 01-JUL-2002 (first entry)

XX Human secreted protein-encoding gene 5 cDNA clone HSLGU75, SEQ ID NO:35.

XX Human; secreted protein; gene therapy; human immunodeficiency virus; HIV;

XX immune disease; autoimmune disease; anaemia; multiple sclerosis; cancer;

XX rheumatoid arthritis; hyperproliferative disorder; melanoma; neoplasm;

XX seary syndrome; Gaucher's disease; neurological disease; cardiac arrest;

XX Alzheimer's disease; Parkinson's disease; Charcot-Marie-Tooth disease;

XX cardiovascular disorder; cerebrovascular disease; tachycardia; angina;

XX thrombosis; ocular disorder; corneal infection; wound healing; cardiac;

XX vascular; thrombolytic; cytostatic; nootropic; gene; ss.

XX Homo sapiens.

OS 2-1369

XX Location/Qualifiers

XX Key

XX CDS

XX /tag= a

XX /product= "Human secreted protein precursor"

XX /transl\_except= (pos:2..4, aa:Xaa)

XX /transl\_except= (pos:50..52, aa:Xaa)

XX /transl\_except= (pos:308..310, aa:Xaa)

XX /transl\_except= (pos:533..535, aa:Xaa)

XX /note= "Xaa equals any of the naturally occurring L-amino

XX acids; CDS does not include start codon"

XX /partial

XX sig\_peptide 2..4

FT	mat_peptide	/tag= b	
FT		5..1366	
FT		/tag= c	
FT		/product= "Human mature secreted protein"	
XX			
PN	WO200218435-A1.		
PD	07-MAR-2002.		
XX			
XX	17-JAN-2001; 2001WO-US0001567.		
XX	28-AUG-2000; 2000US-0228084P.		
XX	(HUMA-) HUMAN GENOME SCI INC.		
XX			
PI	Rosen CA, Komatsoulis GA, Baker KP, Birse CE, Soppet DR;		
PI	Olsen HS, Moore PA, Wei P, Ebner R, Duan DR, Shi Y, Choi GH;		
PI	Fiscella M, Ni J;		
DR	WPI: 2002-281060/32.		
DR	P-PSDB; AAE20817.		
XX			
PT	Isolated nucleic acid molecule encoding a human secreted protein is used		
PT	in preventing, treating or ameliorating e.g. Alzheimer's disease, cardio-		
PT	/cerebrovascular disorders and multiple sclerosis.		
XX			
PS	Claim 1; Page 433; 504pp; English.		
XX			
CC	AAD33237-AD33280 represent cDNAs corresponding to 18 human secreted		
CC	protein genes, and AAE20793-AAE20836 represent the proteins they encode.		
CC	AAE20837-AAE20847 represent human secreted protein fragments. The genes		
CC	and their corresponding secreted proteins are useful for preventing,		
CC	treating or ameliorating medical conditions, e.g., by protein or gene		
CC	therapy. Pathological conditions can be diagnosed by determining the		
CC	amount of the new protein in a sample or by determining the presence of		
CC	mutations in the new genes. Specific uses are described for each of the		
CC	18 genes, based on the tissues in which they are most highly expressed,		
CC	and include developing products for the diagnosis or treatment of immune		
CC	or autoimmune diseases (e.g. HIV (human immunodeficiency virus)		
CC	infections, anaemia, rheumatoid arthritis and multiple sclerosis),		
CC	cancers and hyperproliferative disorders (e.g. melanomas, neoplasms of		
CC	the breast or liver, Sezary syndrome and Gaucher's disease), neurological		
CC	diseases (e.g. Alzheimer's disease, Parkinson's disease and Charcot-		
CC	Marie-Tooth disease), cardiovascular or cerebrovascular disorders (e.g.		
CC	cardiac arrest, tachycardia, angina and thrombosis), infections caused by		
CC	bacteria, viruses and fungi and ocular disorders (e.g. corneal		
CC	infections). Secreted proteins of the invention can also be used to		
CC	promote wound healing, maintain organs before transplantation, support		
CC	cell culture of primary tissues, modulate differentiation of embryonic		
CC	stem cells, induce mesodermal tissue to differentiate in embryos,		
CC	modulate mammalian characteristics (e.g. height and weight), modulate the		
CC	catabolism, anabolism, energy storage, mental state, biorhythms, cardiac		
CC	rhythms, reproductive potential, hormonal levels appetite, memory and		
CC	stresses. They can also be used as an additive to increase or decrease		
CC	storage capabilities and nutritional content of food. The present		
CC	sequence represents a human secreted protein-encoding cDNA of the		
CC	invention		
XX			
SQ	Sequence 2022 BP; 575 A; 500 C; 512 G; 427 T; 0 U; 8 Other;		
	Query Match 3.0%; Score 66.6; DB 6; Length 2022;		
	Best Local Similarity 71.3%; Pred. No. 0.00021;		
	Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;		
QY	2121 CCTTTGCTTTACCACTCTTTTCCTTTTATCTTATTAATAAATGTGTCTCCCACTG 2180		
Db	1834 CCTTTTCCTTCCCACTCTCTGTGTACACATTTTAAATAAATAAGGGTTGGCTTCTGAAC 1893		
QY	2181 NCTCCCAA 2240		
Db	1894 CAAAAAATAA 1953		
QY	2241 AA 2242		
Db	2243 AA 2244		
QY	2121 CCTTTGCTTTACCACTCTTTTCCTTTTATCTTATTAATAAATGTGTCTCCCACTG 2180		
Db	2123 CCTTTTCCTTCCCACTCTCTGTGTACACATTTTAAATAAATAAGGGTTGGCTTCTGAAC 2182		
QY	2181 NCTCCCAA 2240		
Db	2183 CAAAAAATAA 2242		
QY	2241 AA 2242		
Db	2243 AA 2244		
QY	2121 CCTTTGCTTTACCACTCTTTTCCTTTTATCTTATTAATAAATGTGTCTCCCACTG 2180		
Db	2123 CCTTTTCCTTCCCACTCTCTGTGTACACATTTTAAATAAATAAGGGTTGGCTTCTGAAC 2182		
QY	2181 NCTCCCAA 2240		
Db	2183 CAAAAAATAA 2242		
QY	2241 AA 2242		
Db	2243 AA 2244		
QY	2121 CCTTTGCTTTACCACTCTTTTCCTTTTATCTTATTAATAAATGTGTCTCCCACTG 2180		
Db	2123 CCTTTTCCTTCCCACTCTCTGTGTACACATTTTAAATAAATAAGGGTTGGCTTCTGAAC 2182		
QY	2181 NCTCCCAA 2240		
Db	2183 CAAAAAATAA 2242		
QY	2241 AA 2242		
Db	2243 AA 2244		
QY	2121 CCTTTGCTTTACCACTCTTTTCCTTTTATCTTATTAATAAATGTGTCTCCCACTG 2180		
Db	2123 CCTTTTCCTTCCCACTCTCTGTGTACACATTTTAAATAAATAAGGGTTGGCTTCTGAAC 2182		
QY	2181 NCTCCCAA 2240		
Db	2183 CAAAAAATAA 2242		
QY	2241 AA 2242		
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PR 10-JUN-1998; 98US-0088738P.  
PR 10-JUN-1998; 98US-0088740P.  
PR 10-JUN-1998; 98US-0088741P.  
PR 10-JUN-1998; 98US-0088742P.  
PR 10-JUN-1998; 98US-0088810P.  
PR 10-JUN-1998; 98US-0088811P.  
PR 10-JUN-1998; 98US-0088824P.  
PR 10-JUN-1998; 98US-0088825P.  
PR 10-JUN-1998; 98US-0088826P.  
PR 11-JUN-1998; 98US-0088858P.  
PR 11-JUN-1998; 98US-0088861P.  
PR 11-JUN-1998; 98US-0088863P.  
PR 11-JUN-1998; 98US-0088876P.  
PR 12-JUN-1998; 98US-0089080P.  
PR 12-JUN-1998; 98US-0089105P.  
PR 16-JUN-1998; 98US-0089440P.  
PR 16-JUN-1998; 98US-0089512P.  
PR 16-JUN-1998; 98US-0089514P.  
PR 17-JUN-1998; 98US-0089532P.  
PR 17-JUN-1998; 98US-0089538P.  
PR 17-JUN-1998; 98US-0089599P.  
PR 17-JUN-1998; 98US-0089600P.  
PR 17-JUN-1998; 98US-0089653P.  
PR 18-JUN-1998; 98US-0089801P.  
PR 18-JUN-1998; 98US-0089807P.  
PR 18-JUN-1998; 98US-0089808P.  
PR 19-JUN-1998; 98US-0089847P.  
PR 19-JUN-1998; 98US-0089948P.  
PR 19-JUN-1998; 98US-0089952P.  
PR 22-JUN-1998; 98US-0090246P.  
PR 22-JUN-1998; 98US-0090252P.  
PR 22-JUN-1998; 98US-0090254P.  
PR 23-JUN-1998; 98US-0090349P.  
PR 23-JUN-1998; 98US-0090355P.  
PR 24-JUN-1998; 98US-0090429P.  
PR 24-JUN-1998; 98US-0090431P.  
PR 24-JUN-1998; 98US-0090435P.  
PR 24-JUN-1998; 98US-0090444P.  
PR 24-JUN-1998; 98US-0090445P.  
PR 24-JUN-1998; 98US-0090461P.  
PR 24-JUN-1998; 98US-0090472P.  
PR 24-JUN-1998; 98US-0090535P.  
PR 24-JUN-1998; 98US-0090538P.  
PR 24-JUN-1998; 98US-0090540P.  
PR 24-JUN-1998; 98US-0090557P.  
PR 25-JUN-1998; 98US-0090676P.  
PR 25-JUN-1998; 98US-0090678P.  
PR 25-JUN-1998; 98US-0090688P.  
PR 25-JUN-1998; 98US-0090690P.  
PR 25-JUN-1998; 98US-0090691P.  
PR 25-JUN-1998; 98US-0090694P.  
PR 25-JUN-1998; 98US-0090695P.  
PR 25-JUN-1998; 98US-0090696P.  
PR 26-JUN-1998; 98US-0090862P.  
PR 26-JUN-1998; 98US-0090863P.  
PR 01-JUL-1998; 98US-0091358P.  
PR 01-JUL-1998; 98US-0091360P.  
PR 02-JUL-1998; 98US-0091478P.  
PR 02-JUL-1998; 98US-0091486P.  
PR 02-JUL-1998; 98US-0091519P.  
PR 02-JUL-1998; 98US-0091544P.  
PR 02-JUL-1998; 98US-0091626P.  
PR 02-JUL-1998; 98US-0091628P.  
PR 02-JUL-1998; 98US-0091633P.  
PR 02-JUL-1998; 98US-0091646P.  
PR 02-JUL-1998; 98US-0091673P.  
PR 07-JUL-1998; 98US-0091978P.  
PR 07-JUL-1998; 98US-0091982P.  
PR 09-JUL-1998; 98US-0092182P.  
PR 10-JUL-1998; 98US-0092472P.  
PR 30-JUL-1998; 98US-0093339P.  
PR 98US-0094651P.

PR 04-AUG-1998; 98US-0095282P.  
PR 04-AUG-1998; 98US-0095285P.  
PR 04-AUG-1998; 98US-0095301P.  
PR 04-AUG-1998; 98US-0095302P.  
PR 04-AUG-1998; 98US-0095318P.  
PR 04-AUG-1998; 98US-0095321P.  
PR 04-AUG-1998; 98US-0095325P.  
PR 10-AUG-1998; 98US-0095916P.  
PR 10-AUG-1998; 98US-0095929P.  
PR 10-AUG-1998; 98US-0096012P.  
PR 11-AUG-1998; 98US-0096143P.  
PR 11-AUG-1998; 98US-0096146P.  
PR 12-AUG-1998; 98US-0096329P.  
PR 17-AUG-1998; 98US-0096757P.  
PR 17-AUG-1998; 98US-0096766P.  
PR 17-AUG-1998; 98US-0096768P.  
PR 17-AUG-1998; 98US-0096773P.  
PR 17-AUG-1998; 98US-0096791P.  
PR 17-AUG-1998; 98US-0096867P.  
PR 17-AUG-1998; 98US-0096891P.  
PR 17-AUG-1998; 98US-0096894P.  
PR 17-AUG-1998; 98US-0096895P.  
PR 17-AUG-1998; 98US-0096897P.  
PR 18-AUG-1998; 98US-0096949P.  
PR 18-AUG-1998; 98US-0096950P.  
PR 18-AUG-1998; 98US-0096959P.  
PR 18-AUG-1998; 98US-0096960P.  
PR 18-AUG-1998; 98US-0097022P.  
PR 19-AUG-1998; 98US-0097141P.  
PR 20-AUG-1998; 98US-0097218P.  
PR 24-AUG-1998; 98US-0097661P.  
PR 26-AUG-1998; 98US-0097951P.  
PR 26-AUG-1998; 98US-0097952P.  
PR 26-AUG-1998; 98US-0097954P.  
PR 26-AUG-1998; 98US-0097955P.  
PR 26-AUG-1998; 98US-0097971P.  
PR 26-AUG-1998; 98US-0097974P.  
PR 26-AUG-1998; 98US-0097978P.  
PR 26-AUG-1998; 98US-0097979P.  
PR 26-AUG-1998; 98US-0097986P.  
PR 31-AUG-1998; 98US-0098014P.  
PR 16-SEP-1998; 98US-0098525P.  
PR 12-JAN-1999; 98US-0100634P.  
PR 99US-0115565P.

(GETH ) GENENTECH INC.

Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK;  
Wood WI, Yuan J;

WPI; 2000-072883/06.  
P-PSDB; AAY66695.

Membrane-bound proteins and related nucleotide sequences.

Claim 2; Fig 158; 822pp; English.

The invention provides membrane-bound PRO polypeptides and polynucleotides encoding them. The PRO sequences of the invention were identified based on extracellular domain homology screening. The PRO sequences have homology with proteins including IDL receptors, TIE ligands and various enzymes. The membrane-bound proteins and receptor molecules are useful as pharmaceutical and diagnostic agents. Receptor immunoadhesins, for instance, can be used as therapeutic agents to block receptor-ligand interactions. The membrane-bound proteins can also be employed for screening of potential peptide or small molecule inhibitors of the relevant receptor/ligand interaction. The PRO encoding sequences are useful as hybridization probes, in chromosome and gene mapping and in the generation of antisense RNA and DNA. PRO nucleic acid sequences will also be useful for the preparation of PRO polypeptides, especially by recombinant techniques

Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;

```

Query Match      3.0%; Score 66.6; DB 3; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 2121 CCTTTGCTTTACCACTCTTTCTTTATCTATTATTAATAAATGTGTCTCCACCACTG 2180
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2653 CCTTTCTCCCTCTCTTGACACATTTTATAAATAAGGCTTGGCTTCTGAACATA 2712

QY 2181 NCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2240
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2713 CAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2772

QY 2241 AA 2242
    ||
Db 2773 AA 2774

RESULT 298
AAS46009
ID AAS46009 standard; cDNA; 2846 BP.
XX
AC AAS46009;
XX
DE 18-DEC-2001 (first entry)
XX
DE Human DNA encoding PRO polypeptide sequence #85.
XX
KW PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep; ss;
KW dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
KW blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
KW adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder;
KW PCR primer.
XX
OS Homo sapiens.
XX
FN WO200168848-A2.
XX
PD 20-SEP-2001.
XX
PF 28-FEB-2001; 2001WO-US006520.
XX
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 03-MAR-2000; 2000US-0187202P.
PR 06-MAR-2000; 2000US-0186968P.
PR 14-MAR-2000; 2000US-0189320P.
PR 14-MAR-2000; 2000US-0189328P.
PR 15-MAR-2000; 2000WO-US006884.
PR 21-MAR-2000; 2000US-0190828P.
PR 21-MAR-2000; 2000US-0191007P.
PR 21-MAR-2000; 2000US-0191048P.
PR 21-MAR-2000; 2000US-0191314P.
PR 28-MAR-2000; 2000US-0192655P.
PR 29-MAR-2000; 2000US-0193032P.
PR 29-MAR-2000; 2000US-0193053P.
PR 30-MAR-2000; 2000WO-US008439.
PR 04-APR-2000; 2000US-0194439P.
PR 04-APR-2000; 2000US-0194647P.
PR 11-APR-2000; 2000US-0195975P.
PR 11-APR-2000; 2000US-0196000P.
PR 11-APR-2000; 2000US-0196187P.
PR 11-APR-2000; 2000US-0196690P.
PR 11-APR-2000; 2000US-0196820P.
PR 18-APR-2000; 2000US-0198121P.
PR 18-APR-2000; 2000US-0198585P.
PR 25-APR-2000; 2000US-0199397P.
PR 25-APR-2000; 2000US-0199550P.
PR 25-APR-2000; 2000US-0199654P.
PR 03-MAY-2000; 2000US-0201516P.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.

02-JUN-2000; 2000WO-US015264.
05-JUN-2000; 2000US-0209832P.
28-JUN-2000; 2000WO-US020710.
22-AUG-2000; 2000US-00644948.
24-AUG-2000; 2000WO-US023328.
08-NOV-2000; 2000WO-US030952.
01-DEC-2000; 2000WO-US032678.
20-DEC-2000; 2000WO-US034956.

(GETH ) GENENTECH INC.
Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
WPI; 2001-602746/68.
P-PSDB; RAU29108.

Novel nucleic acids encoding PRO polypeptides, used to diagnose the
presence of tumors, such as prostate and breast tumors, in mammals and to
screen for modulators of the compounds.

Claim 2; Fig 169; 774pp; English.

Sequences AAS45925-AAS46231 represent DNA molecules encoding and PCR
primers for PRO polypeptides of the invention. The sequences of the
invention can be used to detect the presence of a tumour in a mammal by
comparing the level of expression of a PRO polypeptide in a test sample
of cells from the animal and a control sample of normal cells, whereby a
higher level of expression in the test sample indicates the presence of a
tumour in the mammal. Mammals include dogs, cats, cattle, horses, sheep,
pigs, goats and rabbits but are preferably human. The polypeptides can be
used to stimulate tumour necrosis factor (TNF) alpha release from human
blood, when contacted with it. A specific polypeptide can be used to
stimulate the proliferation or differentiation of chondrocyte cells. The
PRO proteins can be used to determine the presence of tumours and also
susceptibility to tumour development, particularly adrenal, lung, colon,
breast, prostate, rectal, cervical, or liver tumours, in mammalian
subjects. The oligonucleotide probes specific for the PRO nucleic acids
can be used for genetic analysis of individuals with genetic disorders

SQ Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;

Query Match      3.0%; Score 66.6; DB 4; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 2121 CCTTTGCTTTACCACTCTTTCTTTATCTATTATTAATAAATGTGTCTCCACCACTG 2180
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2653 CCTTTCTCCCTCTCTTGACACATTTTATAAATAAGGCTTGGCTTCTGAACATA 2712

QY 2181 NCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2240
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2713 CAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2772

QY 2241 AA 2242
    ||
Db 2773 AA 2774

RESULT 299
AAF92076
ID AAF92076 standard; cDNA; 2846 BP.
XX
AC AAF92076;
XX
DT 15-MAY-2001 (first entry)
XX
DE Human PRO1344 cDNA.
XX
KW Human; PRO protein; mapping; ss.
XX
OS Homo sapiens.
XX

```

```
PN WO200116318-A2.
XX
PD 08-MAR-2001.
XX
XX PF
XX 24-AUG-2000; 2000WO-US023328.
XX
XX PR 01-SEP-1999; 99WO-US020111.
XX PR 15-SEP-1999; 99WO-US021090.
XX PR 07-DEC-1999; 99US-0169495P.
XX PR 09-DEC-1999; 99US-0170262P.
XX PR 11-JAN-2000; 2000US-0175481P.
XX PR 18-FEB-2000; 2000WO-US004341.
XX PR 18-FEB-2000; 2000WO-US004342.
XX PR 22-FEB-2000; 2000WO-US004414.
XX PR 01-MAR-2000; 2000WO-US005601.
XX PR 03-MAR-2000; 2000US-0187202P.
XX PR 21-MAR-2000; 2000US-0191007P.
XX PR 30-MAR-2000; 2000WO-US008439.
XX PR 25-APR-2000; 2000US-0199397P.
XX PR 22-MAY-2000; 2000WO-US014042.
XX PR 03-JUN-2000; 2000US-0209832P.
XX
XX (GETH ) GENENTECH INC.
XX
XX PA
XX PI Baton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
XX PI Grimaldi CJ, Gurney AL, Watanabe CK, Wood WI;
XX
XX DR WPI; 2001-183260/18.
XX DR P-PSDB; AAB87544.
XX
XX PT Eighty four nucleic acids encoding PRO polypeptides, useful in molecular
XX PT biology, including use as hybridization probes, and in chromosome and
XX PT gene mapping.
XX
XX PS Claim 2; Fig 37; 278pp; English.
XX
XX CC The present sequence is the coding sequence for a human PRO polypeptide
XX CC (secreted and transmembrane). The PRO protein, and PRO agonists, PRO
XX CC antagonists or anti-PRO antibodies are useful for preparation of a
XX CC medicament useful in the treatment of a condition which is responsive to
XX CC the PRO protein, agonists, antagonists or anti-PRO antibodies. The PRO
XX CC protein may also be employed as molecular weight markers for protein
XX CC electrophoresis. The PRO coding sequence has applications in molecular
XX CC biology, including use as hybridisation probes, and in chromosome and
XX CC gene mapping
XX
XX SQ Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;

Query Match 3.0%; Score 66.6; DB 4; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 2121 CTTTGTCTTACCACCTCTTTCTTTATCTATTATAATAAAATGTTGGTCTCCACCACTG 2180
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
2653 CTTTTCCTTCCCATCTCTGTACATTTTAATAAATAAGGTTGGCTTCTGAACTA 2712

QY 2181 NCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2240
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
2713 CAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2772

QY 2241 AA 2242
Db ||
2773 AA 2774

RESULT 300
AAF44180
ID AAF44180 standard; cDNA; 2846 BP.
XX
XX AC AAF44180;
XX
XX DT 02-APR-2001 (first entry)
XX
```

```
DE Human PRO1344 (UNQ699) nucleotide sequence SEQ ID NO:230.
XX
XX KW Human; secreted and transmembrane protein; PRO; cytostatic; cell death;
XX KW cancer; chromosomal mapping; gene mapping; tissue typing;
XX KW diagnostic assay; ss.
XX
XX OS Homo sapiens.
XX
XX PN WO200073454-A1.
XX
XX PD 07-DEC-2000.
XX
XX PF 30-MAR-2000; 2000WO-US008439.
XX
XX PR 02-JUN-1999; 99WO-US012252.
XX PR 23-JUN-1999; 99US-0141037P.
XX PR 07-JUL-1999; 99US-0143048P.
XX PR 20-JUL-1999; 99US-0144758P.
XX PR 26-JUL-1999; 99US-0145698P.
XX PR 28-JUL-1999; 99US-0146222P.
XX PR 17-AUG-1999; 99US-0149396P.
XX PR 15-SEP-1999; 99WO-US021090.
XX PR 15-SEP-1999; 99WO-US021547.
XX PR 08-OCT-1999; 99US-0158663P.
XX PR 30-NOV-1999; 99WO-US028313.
XX PR 01-DEC-1999; 99WO-US028301.
XX PR 16-DEC-1999; 99WO-US030095.
XX PR 20-DEC-1999; 99WO-US030911.
XX PR 06-JAN-2000; 2000WO-US000219.
XX PR 11-FEB-2000; 2000WO-US003565.
XX PR 18-FEB-2000; 2000WO-US004341.
XX PR 22-FEB-2000; 2000WO-US004414.
XX PR 24-FEB-2000; 2000WO-US004914.
XX PR 24-FEB-2000; 2000WO-US005004.
XX PR 02-MAR-2000; 2000WO-US005841.
XX PR 15-MAR-2000; 2000WO-US006884.
XX PR 20-MAR-2000; 2000WO-US007377.
XX
XX (GETH ) GENENTECH INC.
XX
XX PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
XX PI Grimaldi CJ, Gurney AL, Kijavini IJ, Napier MA, Pan J, Paoni NF;
XX PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
XX PI Zhang Z;
XX
XX DR WPI; 2001-032160/04.
XX DR P-PSDB; AAB65218.
XX
XX PT PRO polynucleotides used to produce polypeptides used to target bioactive
XX PT molecules such as toxins, radiolabels or antibodies, to specific cells,
XX PT to cause targeted cell death.
XX
XX PS Claim 2; Fig 158; 935pp; English.
XX
XX CC The present invention describes human secreted and transmembrane PRO
XX CC proteins. The PRO proteins have cytostatic activity. The PRO proteins can
XX CC be used for targeted delivery of bioactive molecules, such as toxins,
XX CC radiolabels or antibodies, that cause cell death. PRO nucleotide
XX CC sequences, and their fragments, can be used as hybridisation probes, in
XX CC chromosomal and gene mapping, and in the generation of anti-sense RNA and
XX CC DNA. They may also be used to produce transgenic animals which are used
XX CC to develop and screen therapeutically useful reagents. The PRO nucleotide
XX CC and protein sequence can be used for tissue typing and in treating
XX CC cancer. Anti-PRO antibodies can be used in diagnostic assays. AAF44270 to
XX CC AAF44470 represent PCR primers and hybridisation probes used in the
XX CC isolation of human PRO sequences. AAF44087 to AAF44269 and AAB65154 to
XX CC AAB65300 represent human PRO polynucleotide and protein sequences given
XX CC in the exemplification of the present invention
XX
XX SQ Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;
```



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Query Match      3.0%; Score 66.6; DB 5; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 2121 CTTTTCCTTTACCACTCTTCCTTTTATCTTATTAATAAATGTTGCTCCACCACTG 2180
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2653 CTTTTCCTTTCCCACTCTTGTACACATTTTAAATAAATAAGGCTTGCTTCTGAAC 2712
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 2181 NCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2240
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2713 CAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2772
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 2241 AA 2242
      ||
Db 2773 AA 2774

RESULT 301
ID ABS74396
AC ABS74396;
XX
XX
DT 10-DEC-2002 (first entry)
XX
XX
DE Human cDNA encoding secreted/transmembrane protein PRO1344.
XX
KW Human; ss; gene; secreted protein; transmembrane protein; antirheumatic;
KW antiarthritic; osteopathic; sports-related joint problem;
KW articular cartilage defect; osteoarthritis; rheumatoid arthritis.
OS Homo sapiens.
XX
XX
PN US2002119130-A1.
XX
PD 29-AUG-2002.
XX
XX
PF 06-DEC-2001; 2001US-00006867.
XX
PR 29-OCT-1997; 97US-0063435P.
PR 29-OCT-1997; 97US-0064215P.
PR 22-APR-1998; 98US-0082797P.
PR 29-APR-1998; 98US-0083495P.
PR 15-MAY-1998; 98US-0085579P.
PR 02-JUN-1998; 98US-0087759P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 11-JUN-1998; 98US-0088863P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089653P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
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08-MAR-1999; 99WO-US005028.
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01-SEP-1999; 99WO-US020111.
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15-SEP-1999; 99WO-US021194.
22-DEC-1999; 99WO-US030720.
18-FEB-2000; 2000WO-US004341.
18-FEB-2000; 2000WO-US004342.
22-FEB-2000; 2000WO-US004414.
01-MAR-2000; 2000WO-US005601.
30-MAR-2000; 2000WO-US008439.
22-MAY-2000; 2000WO-US014042.
02-JUN-2000; 2000WO-US015264.
23-AUG-2000; 2000WO-US023522.
24-AUG-2000; 2000WO-US023328.
10-NOV-2000; 2000WO-US030873.
01-DEC-2000; 2000WO-US032378.
20-DEC-2000; 2000WO-US034956.
28-FEB-2001; 2001WO-US006520.
01-MAR-2001; 2001WO-US006666.
30-MAY-2001; 2001WO-US017443.
01-JUN-2001; 2001WO-US017800.
20-JUN-2001; 2001WO-US019692.
29-JUN-2001; 2001WO-US021066.
09-JUL-2001; 2001WO-US021735.

```

(GETH ) GENENTECH INC.

Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;  
Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;

WPI: 2002-731348/79.  
P-PSDB, ABG95869.

New isolated secreted and transmembrane PRO polypeptide useful for  
modulating biological activity of a cell, or for treating sports-related  
joint problems, osteoarthritis or rheumatoid arthritis.

Claim 2; Fig 37; 399pp; English.

The invention relates to an isolated secreted and transmembrane PRO  
polypeptide having 80 % sequence identity to a sequence appearing as  
ABG95851-ABG95934 or their associated signal peptide, or a sequence of an  
extracellular domain of the proteins with their associated signal peptide  
or lacking its associated signal peptide. Also included are the nucleic  
acids encoding the proteins, vectors, host cells, fusion proteins and  
antibodies which specifically bind to the proteins. The proteins are  
useful for detecting a polypeptide designated as A, B, C or D in a sample  
suspected of containing an A, B, C or D polypeptide, by contacting the  
sample with a polypeptide designated as E, F, G, H or I (or vice versa)  
and determining the formation of a A/E, B/F, B/G, C/H or D/I polypeptide  
conjugate in the sample, where the formation of the conjugate is  
indicative of the presence of an A, B, C or D polypeptide in the sample,  
where A is a PRO10272 polypeptide, B is a PRO20110 polypeptide, C is a  
PRO10096 polypeptide, D is a PRO19760 polypeptide, E is a PRO5801

RESULT 302	
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ID	ACA89459 standard; CDNA; 2846 BP.
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XX	ACA89459;
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DT	09-JUL-2003 (first entry)
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KW	Human; PRO polypeptide; secreted protein; transmembrane protein;
KW	chromosome mapping; gene mapping; tumour; adrenal; lung; colon; breast;
KW	prostate; rectal; cervical; liver; cancer; TNF-alpha;
KW	tumour necrosis factor-alpha; proliferation; differentiation;
KW	chondrocyte cell; bone disorder; cartilage disorder; sports injury;
KW	arthritis; cytostatic; aniarthritic; osteopathic; gene therapy; gene;
SS	ss.
XX	
XX	Homo sapiens.
OS	
XX	
PN	US2003036141-A1.
XX	
PD	20-FEB-2003.
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PF	01-JUL-2002; 2002US-00187597.
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ID ACA73469 standard; cDNA; 2846 BP.
AC ACA73469;
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XX 01-JUL-2003 (first entry)
DE Human secreted/transmembrane protein (PRO) cDNA #85.
KW Human; ss; gene; secreted protein; transmembrane protein; PRO; tumour;
KW proliferation; differentiation; chondrocyte cells;
KW tumour necrosis factor-alpha; TNF-alpha; blood; gene therapy.
OS Homo sapiens.
XX
XX US2003036146-A1.
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XX 20-FEB-2003.
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XX 02-JUL-2002; 2002US-00187603.
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XX 26-JUN-1998; 98US-00105413.
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 PR 15-JAN-2002; 2002US-00052586.  
 XX  
 PA (GETH ) GENENTECH INC.  
 XX  
 PI Baker KP, Chen J, Deanyovers L, Goddard A, Godowski PJ, Gurney AL;  
 PI Pan J, Smith V, Watanabe CK, Wood WL, Zhang Z;  
 XX  
 XX WPI; 2003-332034/31.  
 DR P-PSDB; ABU86277.  
 XX  
 XX Three hundred and five nucleic acids encoding PRO polypeptides, useful in  
 PT gene therapy, chromosome identification, tissue typing, and for detecting  
 PT the presence of tumor in a mammal.

XX Claim 2; Fig 169; 707pp; English.  
 PS  
 XX The invention relates to three hundred and five nucleic acids encoding  
 CC PRO polypeptides (secreted and transmembrane), sequences 80% identical to  
 CC them, or encoding a PRO polypeptide lacking its associated signal peptide  
 CC or an extracellular domain of the PRO polypeptide, with or lacking its  
 CC associated signal peptide. Also included are the encoded PRO proteins,  
 CC PRO expression vectors, host cells transformed with the vector (used to  
 CC produce PRO proteins), a chimeric molecule comprising the PRO  
 CC polypeptide fused to a heterologous amino acid sequence, an anti-PRO  
 CC antibody, a method for stimulating the release of tumor necrosis factor  
 CC alpha (TNF-alpha) from human blood (by contacting the blood with PRO1079,  
 CC PRO827, PRO791, PRO1131, PRO1316, PRO183, PRO1343, PRO1760, PRO1567 or  
 CC PRO4333), a method for stimulating the proliferation or differentiation  
 CC of chondrocyte cells by contacting the cells with a PRO6029 polypeptide,  
 CC a method for detecting the presence of tumour in a mammal and an  
 CC oligonucleotide probe derived from any of the nucleotide sequences cited  
 CC above. The PRO polypeptide or anti-PRO antibody is useful for preparing a  
 CC medicament for treating a condition that is responsive to the PRO  
 CC polypeptide or anti-PRO antibody. The PRO nucleotide sequences are useful  
 CC as hybridisation probes in chromosome and gene mapping, or in generating  
 CC antisense RNA and DNA. PRO nucleic acids are also useful in preparing PRO  
 CC polypeptides, in assays to identify other proteins or molecules involved  
 CC in a binding reaction, to generate transgenic animals or knockout  
 CC animals, which in turn are useful in the development and screening of  
 CC therapeutically useful reagents, for chromosome identification, and  
 CC tissue typing. The PRO polypeptides and nucleic acid molecules are also  
 CC useful for detecting the presence of a tumour in a mammal, stimulating  
 CC proliferation or differentiation of chondrocyte cells, stimulating the  
 CC release of tumour necrosis factor-alpha from human blood, in gene  
 CC therapy, or as molecular weight markers for protein electrophoresis  
 CC purposes. The anti-PRO antibodies may be used in diagnostic assays for  
 CC PRO, or for the affinity purification of PRO from recombinant cell  
 CC culture or natural sources. The present sequence is a cDNA encoding a PRO  
 CC protein  
 XX  
 SQ Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;  
 Query Match 3.0%; Score 66.6; DB 8; Length 2846;  
 Best Local Similarity 71.3%; Pred. No. 0.00023;  
 Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;  
 QY 2121 CCTTTCCTTTACCACTCTTTCTTTTATCTATTATAAAATGTTGGTCTCCACCACGTG 2180  
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 ID ACA05784 standard; cDNA; 2846 BP.  
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 XX 29-MAY-2003 (first entry)  
 DT  
 DE Human secreted/transmembrane protein (PRO) cDNA #85.  
 XX  
 KW Human; gene; ss; secreted and transmembrane protein; PRO; TNF-alpha;  
 KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;  
 KW tissue typing.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2003036162-A1.

XX PD 20-FEB-2003.  
XX PF 12-JUL-2002; 2002US-00194423.  
XX PR 26-JUN-1998; 98US-00105413.  
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PR 18-SEP-2000; 2000WO-US023328.  
PR 18-SEP-2000; 2000US-00664610.  
PR 08-NOV-2000; 2000US-00665350.  
PR 08-NOV-2000; 2000US-00709238.  
PR 01-DEC-2000; 2000WO-US030952.  
PR 20-DEC-2000; 2000US-00747259.  
PR 28-FEB-2001; 2000WO-US034956.  
PR 22-MAR-2001; 2001WO-US006520.  
PR 10-MAY-2001; 2001US-00816744.  
PR 10-MAY-2001; 2001US-00854208.  
PR 25-MAY-2001; 2001US-00854280.  
PR 01-JUN-2001; 2001US-00866028.  
PR 05-JUN-2001; 2001WO-US017800.  
PR 20-JUN-2001; 2001US-00874503.  
PR 29-JUN-2001; 2001WO-US019692.  
PR 09-JUL-2001; 2001WO-US021066.  
PR 18-JUL-2001; 2001US-00908827.  
PR 30-JUL-2001; 2001US-00918585.  
PR 06-AUG-2001; 2001US-00924419.  
PR 13-AUG-2001; 2001US-00929404.  
PR 16-AUG-2001; 2001US-00931836.  
PR 28-AUG-2001; 2001US-00941992.  
PR 29-AUG-2001; 2001WO-US027099.  
PR 04-SEP-2001; 2001US-00946374.  
PR 15-JAN-2002; 2002US-00052586.  
XX (GETH ) GENENTECH INC.  
FA XX

PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;  
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;  
XX WPI; 2003-332039/31.  
DR P-PSDB; ABU67490.  
XX New secreted and transmembrane PRO polypeptides and nucleic acids, useful  
PT in gene therapy, in chromosome and gene mapping, as chromosome markers,  
PT in tissue typing, and in chromosome identification.  
XX  
PS Claim 2; Fig 169; 706pp; English.  
XX  
CC The invention discloses human nucleic acids encoding secreted and  
CC transmembrane (PRO) polypeptides. Also disclosed is an antibody that  
CC specifically binds to the PRO polypeptide, a method for stimulating the  
CC release of tumor necrosis factor alpha (TNF-alpha) from human blood by  
CC contacting the blood a PRO polypeptide, a method for stimulating the  
CC proliferation or differentiation of chondrocyte cells by contacting the  
CC cells with a PRO polypeptide, a method for detecting the presence of a  
CC tumor in a mammal and an oligonucleotide probe derived from any of the  
CC PRO nucleotide sequences. The nucleotide sequences are useful as probes,  
CC in chromosome and gene mapping, in generating antisense RNA and DNA, in  
CC preparing PRO polypeptides by recombinant techniques and in gene therapy  
CC (e.g. for replacement of defective gene). The PRO polypeptides are useful  
CC as molecular weight markers for protein electrophoresis purposes, for  
CC chromosome identification, as chromosome markers, as therapeutic agents,  
CC for stimulating the release of TNF-alpha from human blood, for  
CC stimulating the proliferation or differentiation of chondrocytes and  
CC detecting the presence of a tumour. The PRO polypeptides and nucleic  
CC acids may also be used diagnostically for tissue typing. The sequences  
CC presented in ACA05700-ACA06004 are the cDNAs encoding the PRO  
CC polypeptides of the invention  
XX  
SQ Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;

Query Match 3.0%; Score 66.6; DB 8; Length 2846;  
Best Local Similarity 71.3%; Pred. No. 0.00023;  
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

Qy 2121 CCTTGGCTTTACCACCTCTTTCTTTATCTTATTAATAAATGTTGCTCCACCACTG 2180  
Db 2653 CCTTTCTCTCCCATCTCTGTACACATTTTATAAATAAGGTTGGCTTCTGAACCTA 2712

Qy 2181 NCTCCCAA 2240  
Db 2713 CAAA 2772

Qy 2241 AA 2242  
Db 2773 AA 2774

RESULT 305  
ACA66618  
ID ACA66618 standard; cDNA; 2846 BP.  
XX  
AC ACA66618;  
XX  
DT 23-JUN-2003 (first entry)  
XX  
DE cDNA encoding human PRO protein #85.  
XX Human; tumour; adrenal; lung; colon; breast; prostate; rectal; cervical;  
KW liver; PRO; gene therapy; gene; ss.  
XX Homo sapiens.  
OS  
XX US2003036137-A1.  
XX  
XX 20-FEB-2003.  
XX  
XX 27-JUN-2002; 2002US-00184640.  
XX

XX PT Three hundred and five nucleic acids encoding secreted and transmembrane  
PT PRO polypeptides, useful for the diagnosis, prevention and/or treatment  
PT of tumors, such as adrenal, lung, colon, breast, prostate, rectal,  
PT cervical or liver tumors.  
XX  
PS Claim 2; Fig 169; 708pp; English.  
XX  
CC The invention relates to three hundred and five nucleic acids encoding  
CC PRO polypeptides (secreted and transmembrane). Methods and compositions  
CC of the present invention are useful for the diagnosis, prevention and/or  
CC treatment of tumors, such as adrenal, lung, colon, breast, prostate,  
CC rectal, cervical or liver tumors. The PRO polypeptides are also useful  
CC as molecular weight markers, or for chromosome identification. The PRO  
CC genes are useful as hybridisation probes, or for screening libraries of  
CC human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene  
CC therapy, particularly for replacing a defective gene. The present  
CC sequence represents a cDNA encoding a human PRO polypeptide of the  
CC invention  
XX  
SQ Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;  
  
Query Match 3.0%; Score 66.6; DB 8; Length 2846;  
Best Local Similarity 71.3%; Pred. NO. 0.00023;  
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;  
  
QY 2121 CCTTTGCTTACCACCTCTTCTCTTATTAATAAATGTTGCTCCACACTG 2180  
DB 2653 CCTTTGCTTCCCACTCTCTCTTATTAATAAATGTTGCTCTGACTA 2712  
QY 2181 NCTCCCAA 2240  
DB 2713 CAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2772  
QY 2241 AA 2242  
DB 2773 AA 2774  
  
RESULT 306  
ACA64316  
ID ACA64316 standard; cDNA; 2846 BP.  
XX  
AC ACA64316;  
XX  
DT 17-JUN-2003 (first entry)  
XX  
DE Novel human secreted and transmembrane protein PRO1344 cDNA.  
XX  
KW Human; secreted and transmembrane protein; cytostatic; anti-HIV;  
KW virucide; hepatotropic; antiinflammatory; neuroprotective; gene therapy;  
KW PRO; pharmaceutical; diagnostic; biosensor; bioindicator; malignancy;  
KW cancer; ovarian cancer; colorectal cancer; Kaposi's sarcoma; leukaemia;  
KW lymphoma; hepatitis B; multiple sclerosis; Crohn's disease;  
XX  
OS Homo sapiens.  
XX  
PN US2003003531-A1.  
XX  
PD 02-JAN-2003.  
XX  
PF 19-NOV-2001; 2001US-00989734.  
XX  
PR 16-JUN-1997; 97US-0049787P.  
PR 17-OCT-1997; 97US-0062250P.  
PR 05-NOV-1997; 97WO-US020069.  
PR 12-NOV-1997; 97US-0065186P.  
PR 13-NOV-1997; 97US-0065311P.  
PR 24-NOV-1997; 97US-0066770P.  
PR 25-FEB-1998; 98US-0075945P.  
PR 20-MAR-1998; 98US-0078910P.  
PR 28-APR-1998; 98US-0083322P.  
  
(GETH ) GENENTECH INC.  
Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;  
Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;  
WPI; 2003-342038/32.  
P-PSDB; ABU80518.

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PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088826P.
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PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
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PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 16-SEP-1998; 98WO-US019330.
PR 07-SEP-1998; 98WO-US021141.
PR 07-SEP-1998; 98WO-US021147.
PR 01-DEC-1998; 98WO-US025108.
PR 05-JAN-1999; 98WO-US000106.
PR 08-MAR-1999; 98WO-US005028.
PR 02-JUN-1999; 98WO-US012252.
PR 15-SEP-1999; 98WO-US021090.
PR 15-SEP-1999; 98WO-US021547.
PR 30-NOV-1999; 98WO-US028313.
PR 01-DEC-1999; 98WO-US028301.
PR 01-DEC-1999; 98WO-US028334.
PR 16-DEC-1999; 98WO-US030095.
PR 20-DEC-1999; 98WO-US030911.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 15-MAR-2000; 2000WO-US006884.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.

11-AUG-2000; 2000WO-US022031.
23-AUG-2000; 2000WO-US023522.
24-AUG-2000; 2000WO-US023328.
08-NOV-2000; 2000WO-US030952.
01-DEC-2000; 2000WO-US032678.
28-FEB-2001; 2001WO-US006520.
01-JUN-2001; 2001WO-US017800.
20-JUN-2001; 2001WO-US019692.
29-JUN-2001; 2001WO-US021066.
09-JUL-2001; 2001WO-US021735.
28-AUG-2001; 2001US-00941992.
(GETH ) GENENTECH INC.
Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
Grimaldi JC, Gurney AL, Kijavini IU, Napier MA, Pan J, Paoni NF;
Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
Zhang Z;
WPI; 2003-352829/33.
P-PSDB; ABU72509.
New genes and secreted and transmembrane polypeptides (e.g. PRO183 or
PRO184), useful for treating or diagnosing e.g. ovarian cancer, Kaposi's
sarcoma, leukemia, lymphoma, hepatitis B, multiple sclerosis or Crohn's
disease.
Claim 1; Fig 158; 663pp; English.
The invention describes a new isolated nucleic acid molecule comprising
the full length coding sequence of the DNA deposited with the American
Type Culture Collection (e.g. ATCC Deposit No. 209621, 552-PTA, 819-PTA,
209439, 203135, etc); or a sequence with at least 80% identity to a DNA
encoding a PRO polypeptide. The PRO polypeptides or polynucleotides are
useful as pharmaceuticals, diagnostics, biosensors or bioreactors. These
are particularly useful for detecting or treating e.g. malignancies or
cancers (e.g. ovarian cancer, colorectal cancer, Kaposi's sarcoma,
leukemia or lymphoma), hepatitis B, multiple sclerosis, or Crohn's
disease in mammals. The PRO polypeptides are useful in drug screening,
particularly as targets for therapeutic intervention in these diseases,
and in the diagnostic determination of the presence of these diseases.
The PRO polypeptides are also useful as molecular weight markers, or for
chromosome identification. The PRO genes are useful as hybridisation
probes, or for screening libraries of human cDNA, genomic DNA or mRNA.
The PRO genes may also be used in gene therapy, particularly for
replacing a defective gene. This sequence encodes a novel human secreted
and transmembrane PRO polypeptide
Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;
Query Match 3.0%; Score 66.6; DB 8; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;
Qy 2121 CCTTTGCTTTACCACTCTCTTTCTTTTATCTTTATTAATAAAATCTGCTCCACCACTG 2180
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 2653 CCTTTCTTCCCACTCTCTTTGACACATTTTATAAATAGGTTGGTTCGAACTA 2712
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 2181 NCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2240
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 2713 CAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2772
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Qy 2241 AA 2242
|||
Db 2773 AA 2774
|||
RESULT 307
ACA91182
ID ACA91182 standard; cDNA; 2846 BP.
XX
AC ACA91182;
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XX DT 11-JUL-2003 (first entry)
XX DE Novel human secreted and transmembrane protein PRO1344 cDNA.
XX KW Human; secreted and transmembrane protein; PRO; antibody therapy;
XX KW pharmaceutical; diagnostic; biosensor; bioreactor; gene; ss.
XX OS Homo sapiens.
XX PN US2003018173-A1.
XX PD 23-JAN-2003.
XX PF 01-MAY-2002; 2002US-00063515.
XX PR 06-DEC-2001; 2001US-00006867.
XX PA (GETH ) GENENTECH INC.
XX PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
XX PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX DR WPI; 2003-401702/38.
XX DR P-PSDB; ABUS0894.
XX CC New antibody useful for identifying PRO polypeptides, for affinity
XX CC purification of PRO polypeptides, and for preparing a medicament for
XX CC diagnosing or treating conditions responsive to the antibody or PRO
XX CC polypeptide.
XX PS Disclosure; Fig 37; 345pp; English.
XX CC The invention describes an antibody that specifically binds to a PRO
XX CC polypeptide having a fully defined amino acid sequence given in the
XX CC specification. The antibody is useful in identifying PRO polypeptides
XX CC useful for various industrial applications, including pharmaceuticals,
XX CC diagnostics, biosensors and bioreactors. The antibody is also used for
XX CC affinity purification of PRO polypeptides from recombinant cell culture
XX CC or natural sources. The antibody, PRO polypeptide, or its agonists or
XX CC antagonists, may be used for preparing a medicament for diagnosing or
XX CC treating a condition responsive to the antibody, PRO polypeptide, or its
XX CC agonists or antagonists. This sequence encodes a novel human secreted and
XX CC transmembrane PRO polypeptide
XX SQ Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;
Query Match 3.0%; Score 66.6; DB 8; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;
Oy 2121 CCTTGGCTTTACCACTCTTTCCTTTATCTTATTAATAAAATGTTGCTCCACCACTG 2180
Db 2653 CCTTTTCCTTCCCATCTCTGTACACATTTTAATAAAATGAGGTTGGCTTCGACTA 2712
Oy 2181 NCTCCAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2240
Db 2713 CAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2772
Oy 2241 AA 2242
Db 2773 AA 2774
RESULT 308
ACD81559
ID ACD81559 standard; cDNA; 2846 BP.
XX AC ACD81559;
XX DT 18-SEP-2003 (first entry)
XX DE Human cDNA encoding secreted/transmembrane protein PRO1344.

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XX KW Human; ss; gene; secreted/transmembrane protein; PRO; tumour; cancer;
XX KW cytostatic.
XX OS Homo sapiens.
XX PN US2003009013-A1.
XX PD 09-JAN-2003.
XX PF 01-MAY-2002; 2002US-00063519.
XX PR 30-DEC-1998; 98KR-00062142.
XX PR 08-MAR-1999; 99WO-US005028.
XX PR 14-MAY-1999; 99US-00311832.
XX PR 14-MAY-1999; 99WO-US010733.
XX PR 25-AUG-1999; 99US-00380137.
XX PR 25-AUG-1999; 99US-00380138.
XX PR 25-AUG-1999; 99US-00380139.
XX PR 25-AUG-1999; 99US-00380142.
XX PR 15-SEP-1999; 99US-00397342.
XX PR 18-OCT-1999; 99US-00403297.
XX PR 12-NOV-1999; 99US-00423844.
XX PR 30-DEC-1999; 99WO-US031274.
XX PR 18-FEB-2000; 2000WO-US004341.
XX PR 02-MAR-2000; 2000WO-US005601.
XX PR 21-MAR-2000; 2000WO-US005841.
XX PR 22-MAY-2000; 2000WO-US007532.
XX PR 02-JUN-2000; 2000WO-US014042.
XX PR 22-AUG-2000; 2000US-00644848.
XX PR 24-AUG-2000; 2000WO-US023328.
XX PR 18-SEP-2000; 2000US-00664610.
XX PR 08-SEP-2000; 2000US-00685350.
XX PR 08-NOV-2000; 2000US-00709238.
XX PR 10-NOV-2000; 2000WO-US030873.
XX PR 01-DEC-2000; 2000WO-US032678.
XX PR 20-DEC-2000; 2000US-00747259.
XX PR 20-DEC-2000; 2000WO-US034956.
XX PR 28-FEB-2001; 2001WO-US006520.
XX PR 22-MAR-2001; 2001US-00816744.
XX PR 10-MAY-2001; 2001US-00854208.
XX PR 30-MAY-2001; 2001US-00854280.
XX PR 01-JUN-2001; 2001US-00870574.
XX PR 05-JUN-2001; 2001WO-US017800.
XX PR 23-JUN-2001; 2001US-00874503.
XX PR 18-JUL-2001; 2001US-00908827.
XX PR 06-DEC-2001; 2001US-00006867.
XX PA (GETH ) GENENTECH INC.
XX PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
XX PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX DR WPI; 2003-447384/42.
XX DR P-PSDB; ABO33953.
XX PT New isolated antibody specifically binding a PRO polypeptide, useful for
XX PT the preparation of a medicament for treating disorders with the aberrant
XX PT expression or activity of the PRO polypeptide, such as tumor conditions
XX PT and cancer.
XX PS Disclosure; Fig 37; 223pp; English.
XX CC The invention relates to an antibody that binds to a secreted or
XX CC transmembrane protein designated PRO1446 appearing as ABO33941. The
XX CC protein is one of 84 PRO polypeptides which (along with their encoding
XX CC nucleic acids) are disclosed in the specification. The methods and
XX CC compositions of the present invention are useful for the preparation of a
XX CC medicament for the treatment of disorders associated with the aberrant
XX CC expression or activity of the PRO polypeptide, such as tumour conditions
XX CC and cancer. They can also be used to generate transgenic or knockout

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PR	29-SEP-1998;	98US-0102207P.
PR	29-SEP-1998;	98US-0102240P.
PR	29-SEP-1998;	98US-0102310P.
PR	29-SEP-1998;	98US-0102331P.
PR	30-SEP-1998;	98US-0102487P.
PR	30-SEP-1998;	98US-0102570P.
PR	30-SEP-1998;	98US-0102571P.
PR	01-OCT-1998;	98US-0102684P.
PR	01-OCT-1998;	98US-0102687P.
Query Match            3.0%; Score 66.6; DB 8; Length 2846;		
Best Local Similarity   71.3%; Pred. No. 0.0002;		
Matches   87; Conservative   0; Mismatches   35; Indels   0; Gaps   0;		
QY	2121 CCTTTGCTTTTACCACCTCTTCCTTTTATCCTTTATTAATAAAAAATCGTGCTCCACCACTG	2180
Db	2653 CTTTTTCCTTCCCACCTCTGTACACATTTTATAAATAAGGTTGGCTTCTGAACCTA	2712
QY	2181 NCTCCCAAA	2240
Db	2713 CAA	2772
QY	2241 AA 2242	
Db	2773 AA 2774	
RESULT 310		
ACF19579		
ID	ACF19579 standard; cDNA; 2846 BP.	
XX	AC ACF19579;	
XX	AC ACF19579;	
DT	17-SEP-2003 (first entry)	
DE	Human secreted polypeptide PRO1344-encoding cDNA, SEQ ID NO:169.	
XX	Human; PRO; secreted protein; transmembrane protein;	
KW	extracellular domain; tumour necrosis factor-alpha; TNF-alpha;	
KW	chondrocyte proliferation; differentiation; cartilage disorder;	
KW	bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;	
KW	adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;	
KW	liver; drug screening; transgenic animal; genetic analysis;	
XX	antiarthritic; vulnerary; gene therapy; gene; ss.	
OS	Homo sapiens.	
XX	US2003040064-A1.	
PX	27-FEB-2003.	
DD	26-JUN-2002; 2002US-00183008.	
XX	18-SEP-1997; 97US-0059263P.	
PR	18-SEP-1997; 97US-0059266P.	
PR	17-OCT-1997; 97US-0062250P.	
PR	21-OCT-1997; 97US-0063486P.	
PR	24-OCT-1997; 97US-0063120P.	
PR	28-OCT-1997; 97US-0063540P.	
PR	28-OCT-1997; 97US-0063541P.	
PR	28-OCT-1997; 97US-0063544P.	
PR	28-OCT-1997; 97US-0063564P.	
PR	29-OCT-1997; 97US-0063734P.	
PR	31-OCT-1997; 97US-0063870P.	
PR	31-OCT-1997; 97US-0064103P.	
PR	13-NOV-1997; 97US-0065311P.	
PR	21-NOV-1997; 97US-0066120P.	
PR	24-NOV-1997; 97US-0066466P.	
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PR	17-DEC-1997; 97US-0069870P.	

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PR 11-MAR-1998; 98US-0077649P.  
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PR 27-MAR-1998; 98US-0079786P.  
PR 31-MAR-1998; 98US-0080107P.  
PR 31-MAR-1998; 98US-0080194P.  
PR 01-APR-1998; 98US-0080327P.  
PR 01-APR-1998; 98US-0080333P.  
PR 08-APR-1998; 98US-0081049P.  
PR 08-APR-1998; 98US-0081070P.  
PR 09-APR-1998; 98US-0081195P.  
PR 15-APR-1998; 98US-0081838P.  
PR 21-APR-1998; 98US-0082568P.  
PR 21-APR-1998; 98US-0082569P.  
PR 22-APR-1998; 98US-0082704P.  
PR 22-APR-1998; 98US-0082797P.  
PR 28-APR-1998; 98US-0083322P.  
PR 29-APR-1998; 98US-0083495P.  
PR 29-APR-1998; 98US-0083496P.  
PR 29-APR-1998; 98US-0083499P.  
PR 29-APR-1998; 98US-0083559P.  
PR 05-MAY-1998; 98US-0084366P.  
PR 06-MAY-1998; 98US-0084414P.  
PR 07-MAY-1998; 98US-0084639P.  
PR 07-MAY-1998; 98US-0084640P.  
PR 07-MAY-1998; 98US-0084643P.  
PR 15-MAY-1998; 98US-0085579P.  
PR 15-MAY-1998; 98US-0085580P.  
PR 15-MAY-1998; 98US-0085582P.  
PR 15-MAY-1998; 98US-0085700P.  
PR 18-MAY-1998; 98US-0086023P.  
PR 22-MAY-1998; 98US-0086392P.  
PR 22-MAY-1998; 98US-0086486P.  
PR 28-MAY-1998; 98US-0087089P.  
PR 28-MAY-1998; 98US-0087208P.  
PR 02-JUN-1998; 98US-0087609P.  
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KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX OS Homo sapiens.
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XX PD 06-FEB-2003.
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KW chondrocyte; proliferation; differentiation; cartilage disorder;  
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PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

Query Match      3.0%; Score 66.6; DB 8; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

Qy 2121 CCTTGGCTTTACCACTCTTCTTTATCTATTAATAAATGTTGCTCCCACTG 2180
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Db 2653 CCTTTCTCTCCCATCTCTTGACACATTTTAATAAATAAGGTTGCTTCTGAAC 2712
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Qy 2181 NCTCCAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2240
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Db 2713 CAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2772
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Qy 2241 AA 2242
    ||
Db 2773 AA 2774

RESULT 313
ACD25135
ID ACD25135 standard; cDNA; 2846 BP.
XX
AC ACD25135;
XX
DT 30-AUG-2003 (first entry)
XX
DE Human secreted/transmembrane protein (PRO) cDNA #85.
XX
KW Human; gene; ss; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX
OS Homo sapiens.
XX
XX US2003044925-A1.
XX
PD 06-MAR-2003.
XX
XX 25-JUN-2002; 2002US-00180560.
XX
PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
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PR 11-DEC-1997; 97US-0069335P.
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PR 24-SEP-1998; 98US-0101739P.
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PR 24-SEP-1998; 98US-0101922P.

PR 25-SEP-1998; 98US-0101786P.
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PR 06-OCT-1998; 98US-0103449P.

Query Match 3.0%; Score 66.6; DB 8; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 2121 CCTTTGCTTTACCACTCTTCTTTTATCTTATTAATAAAATCTTGCTTCCACCACTG 2180
DB 2653 CCTTTTCTTCCCACTCTTTGACACATTTTATAATAAAGGTTGGCTTCTGAAC 2712
QY 2181 NCTCCAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2240
DB 2713 CAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2772
QY 2241 AA 2242
DB 2773 AA 2774

RESULT 314
ACF00184
ID ACF00184 standard; cDNA; 2846 BP.
XX
AC ACF00184;
XX
DT 19-SEP-2003 (first entry)
XX
DE Human secreted polypeptide PRO1344-encoding cDNA, SEQ ID NO:169.
XX
KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy; gene; ss.
XX
OS Homo sapiens.
XX
US2003054474-A1.
XX
PD 20-MAR-2003.
XX
PF 22-JUL-2002; 2002US-00201530.
XX
XX 22-JUN-1998; 98US-0090254P.
PR 02-JUN-1999; 99WO-US012252.
PR 25-AUG-1999; 99US-00380137.
PR 28-FEB-2001; 2001WO-US006520.
PR 15-JAN-2002; 2002US-00052586.
XX
PA (GETH ) GENENTECH INC.
XX
XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI; 2003-503631/47.
DR P-ESDB; ABR78311.
XX
XX New secreted and transmembrane PRO polypeptides and nucleic acids, useful
PT in gene therapy, or for preparing a medicament for treating a condition
98US-0101922P.
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PT that is responsive to the PRO polypeptide or anti-PRO antibody.

PS Claim 2; Fig 169; 700pp; English.

XX The invention relates to human PRO secreted/transmembrane polypeptides  
CC (ABR78227-ABR78531) and nucleic acids encoding them (ACF00100-00404). The  
CC invention also relates to sequences at least 80% identical to the PRO  
CC nucleic acid and polypeptide sequences of the invention, recombinant  
CC vectors and host cells comprising a PRO nucleic acid, a method for the  
CC recombinant production of a PRO polypeptide, antibodies against a PRO  
CC polypeptide, and fusion proteins comprising a PRO polypeptide. Nucleic  
CC acids encoding PRO polypeptides of the invention were initially  
CC identified via homology screening using consensus sequences based on the  
CC extracellular domain sequences from known secreted proteins. Human cDNA  
CC libraries containing sequences of interest were identified using  
CC oligonucleotides based on the consensus sequences, and cDNA clones were  
CC isolated and characterized. The PRO polypeptides are useful for  
CC stimulating release of tumour necrosis factor-alpha (TNF-alpha) from  
CC human blood and may thus be used in the treatment of conditions in which  
CC enhanced TNF-alpha release would be beneficial. They are also useful for  
CC stimulating the proliferation or differentiation of chondrocytes and as  
CC such may be used in the treatment of various bone and/or cartilage  
CC disorders such as arthritis and sports injuries. The PRO polypeptides may  
CC be used in a method for detecting the presence of a tumour (e.g., an  
CC adrenal tumour, lung tumour, colon tumour, breast tumour, prostate  
CC tumour, rectal tumour, cervical tumour or liver tumour) in a mammal. This  
CC method involves comparing the level of expression of the PRO polypeptide  
CC in test and control samples, where a higher level of expression of PRO  
CC polypeptide in the test sample as compared to the control sample is  
CC indicative of the presence of a tumour. The PRO polypeptides are  
CC additionally useful for in drug screening to identify agonists and  
CC antagonists of PRO polypeptides. PRO nucleic acids are useful as  
CC hybridisation probes (for isolation of cDNA molecules), in chromosome and  
CC gene mapping, in the generation of antisense RNA and DNA and in gene  
CC therapy. The nucleic acids can also be used for mapping genes encoding  
CC PRO polypeptides, for genetic analysis of individuals with genetic  
CC disorders, and for generating either transgenic animals or knock-out  
CC animals which are useful in the development and screening of  
CC therapeutically useful compounds. Sequences ACF00100-00404 represent  
CC cDNAs encoding the human PRO secreted/transmembrane polypeptides of the  
CC invention. Note: The sequence data for this patent is also available in  
CC electronic format from USPTO at [seqdata.uspto.gov/sequence.html](http://seqdata.uspto.gov/sequence.html)

XX Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;

Query Match 3.0%; Score 66.6; DB 8; Length 2846;  
Best Local Similarity 71.3%; Pred. No. 0.00023;  
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;  
Qy 2121 CCTTGGCTTTACCACTCTTTCTTTTATCTATTATTAATAAATGTTGCTCTCCACCACTG 2180  
Db 2653 CCTTTCTCTCCCACTCTTGTACACATTTTATAAATAAGGTTGGCTTCTGAACCTA 2712  
Qy 2181 NCTCCCAAA 2240  
Db 2713 CAAAAAATAAA 2772  
Qy 2241 AA 2242  
Db 2773 AA 2774

RESULT 315

ID ACA60381  
AC ACA60381 standard; cDNA; 2846 BP.

XX ACA60381;

DT 11-JUN-2003 (first entry)

XX Novel human secreted and transmembrane protein PRO1344 cDNA.

XX Human; secreted and transmembrane polypeptide; gene;

KW ss. chromosome mapping; gene mapping; transgenic animal; knockout animal;  
KW therapeutic agent screening; chromosome identification; tissue typing;  
KW gene therapy.

XX Homo sapiens.

XX OS US2003018183-A1.

XX PD 23-JAN-2003.

XX PF 01-MAY-2002; 2002US-00063512.

XX PR 06-DEC-2001; 2001US-00006867.

XX PA (GETH ) GENENTECH INC.

XX PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;

XX PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;

XX DR WPI; 2003-330984/31.

XX DR P-PSDB; ABU71970.

XX PT New secreted and transmembrane PRO polypeptides and nucleic acid  
PT molecules encoding the polypeptides, useful in gene therapy or preparing  
PT a medicament for treating a condition that is responsive to the PRO  
PT polypeptide or antibody.

XX PS Disclosure; Fig 37; 409pp; English.

XX The invention describes novel isolated PRO polypeptides. The PRO  
CC polypeptides or anti-PRO antibodies are useful in preparing a medicament  
CC for treating a condition that is responsive to the PRO polypeptide or  
CC antibody. The PRO nucleotide sequences may be used as hybridisation  
CC probes in chromosome and gene mapping, or in generating antisense RNA and  
CC DNA. PRO nucleic acids are also useful in preparing PRO polypeptides, in  
CC assays to identify other proteins or molecules involved in binding  
CC reaction, to generate transgenic animals or knockout animals, which in  
CC turn are useful in the development and screening of therapeutically  
CC useful reagents, for chromosome identification, and tissue typing. The  
CC PRO polypeptides and nucleic acid molecules are also useful in gene  
CC therapy, and as molecular weight markers for protein electrophoresis  
CC purposes. The anti-PRO antibodies may be used in diagnostic assays for  
CC PRO, or for the affinity purification of PRO from recombinant cell  
CC culture or natural sources. This sequence encodes a novel human secreted  
CC and transmembrane PRO polypeptide

XX SQ Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;

Query Match 3.0%; Score 66.6; DB 8; Length 2846;  
Best Local Similarity 71.3%; Pred. No. 0.00023;  
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;  
Qy 2121 CCTTGGCTTTACCACTCTTTCTTTTATCTATTATTAATAAATGTTGCTCTCCACCACTG 2180  
Db 2653 CCTTTCTCTCCCACTCTTGTACACATTTTATAAATAAGGTTGGCTTCTGAACCTA 2712  
Qy 2181 NCTCCCAAA 2240  
Db 2713 CAAAAAATAAA 2772  
Qy 2241 AA 2242  
Db 2773 AA 2774

RESULT 316

ID ACA72241  
AC ACA72241 standard; cDNA; 2846 BP.

XX ACA72241;

XX 30-JUN-2003 (first entry)

Wed Feb 16 11:37:55 2005

us-10-036-342-56.rng

DE Novel human secreted and transmembrane protein PRO1344 cDNA.  
XX Human, secreted and transmembrane protein; PRO; cytostatic; gene therapy;  
KW chondrocyte stimulator; chromosome mapping; gene mapping;  
KW transgenic animal; knock-out animal; tumour; gene; ss.  
XX Homo sapiens.  
XX US2003032114-A1.  
PD 13-FEB-2003.  
XX 20-JUN-2002; 2002US-00176919.  
XX 18-SEP-1997; 97US-0059263P.  
PR 18-SEP-1997; 97US-0059263P.  
PR 17-OCT-1997; 97US-0062250P.  
PR 21-OCT-1997; 97US-0063486P.  
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PR 24-OCT-1997; 97US-0063121P.  
PR 28-OCT-1997; 97US-0063540P.  
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PR 31-OCT-1997; 97US-0063870P.  
PR 31-OCT-1997; 97US-0064103P.  
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PR 24-NOV-1997; 97US-0066466P.  
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PR 07-MAY-1998; 98US-0084639P.  
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PR 03-JUN-1998; 98US-0087827P.  
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QY	2181	NTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA	2240	
Db	2713	CAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA	2772	
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Query Match 3.0%; Score 66.6; DB 8; Length 2846;  
Best Local Similarity 71.3%; Pred. No. 0.00023;  
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Db 2713 CAA 2772  
Qy 2241 AA 2242  
Db 2773 AA 2774

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ID ACA88667 standard; cDNA; 2846 BP.  
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XX 09-JUL-2003 (first entry)  
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XX  
XX Human; ss; gene therapy; chondrocyte stimulation; TNF-alpha release;  
KW chondrocyte proliferation; chondrocyte differentiation; tumour detection;  
KW tissue typing; gens.  
XX  
XX Homo sapiens.  
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XX 20-FEB-2003.  
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XX 27-JUN-2002; 2002US-00184630.  
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Qy 2241 AA 2242
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Db 2773 AA 2774
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XX AC ACD25442;
XX DT 27-AUG-2003 (first entry)
XX DE Novel human secreted and transmembrane protein PRO1344 cDNA.
XX KW Human; secreted and transmembrane protein; PRO; chromosome mapping;
KW gene mapping; transgenic animal; knockout animal; tissue typing;
KW chromosome identification; tumour; chondrocyte proliferation;
KW chondrocyte differentiation; tumour necrosis factor-alpha release;
XX gene therapy; gene; ss.
XX OS Homo sapiens.
XX PN US2003036118-A1.
XX PD 20-FEB-2003.
XX PF 21-JUN-2002; 2002US-00176760.
XX PR 26-JUN-1998; 98US-00105413.
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PR 22-MAR-2001; 2001US-00816744.
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XX (GETH ) GENENTECH INC.  
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XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;  
PI Pan J, Smith V, Watanabe CX, Wood WI, Zhang Z;  
XX  
XX WPI; 2003-402071/38.  
XX P-PSDB; ABO19195.  
XX  
XX New secreted and transmembrane PRO polypeptides and nucleic acids, useful  
XX in gene therapy, chromosome identification, tissue typing, for detecting  
XX the presence of tumor in a mammal, or as hybridization probes in gene  
XX mapping.  
XX  
XX Claim 2; SEQ ID NO 169; 707pp; English.  
XX  
XX The invention describes a novel isolated PRO polypeptide. The PRO  
XX polypeptide or anti-PRO antibody is useful for preparing a medicament for  
XX treating a condition that is responsive to the PRO polypeptide or anti-  
XX PRO antibody. The PRO nucleotide sequences are useful as hybridisation  
XX probes in chromosome and gene mapping, or in generating antisense RNA and  
XX DNA. PRO nucleic acids are also useful in preparing PRO polypeptides, in  
XX assays to identify other proteins or molecules involved in binding  
XX reaction, to generate transgenic animals or knockout animals, which in  
XX turn are useful in the development and screening of therapeutically  
XX useful reagents, for chromosome identification, and tissue typing. The  
XX PRO polypeptides and nucleic acid molecules are also useful for detecting  
XX the presence of tumour in a mammal, stimulating proliferation or  
XX differentiation of chondrocyte cells, stimulating the release of tumour  
XX necrosis factor-alpha from human blood, in gene therapy, or as molecular  
XX weight markers for protein electrophoresis purposes. The anti-PRO  
XX antibodies may be used in diagnostic assays for PRO, or for the affinity  
XX purification of PRO from recombinant cell culture or natural sources.  
XX This sequence encodes a novel human secreted and transmembrane PRO  
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Query Match 3.0%; Score 66.6; DB 8; Length 2846;  
Best Local Similarity 71.3%; Pred. NO. 0.00023;  
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;  
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Db 2773 AA 2774  
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DT 25-AUG-2003 (first entry)  
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KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;  
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;  
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.  
XX  
OS Homo sapiens.  
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PN US2003036123-A1.  
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PD 20-FEB-2003.  
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Query Match 3.0%; Score 66.6; DB 8; Length 2846;  
Best Local Similarity 71.3%; Pred. No. 0.00023;

Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

Qy 2121 CCTTGTCTTACCACCTCTTCTCTTTATCTTATTAATAAAATGTTGCTCTCCACCACTG 2180

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Wed Feb 16 11:37:55 2005

us-10-036-342-56.rng

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KW chondrocyte; proliferation; differentiation; cartilage disorder;  
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KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;  
KW liver; drug screening; transgenic animal; genetic analysis;  
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KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
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XX bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
XX adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
XX liver; drug screening; transgenic animal; genetic analysis;
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PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.

Query Match 3.0%; Score 66.6; DB 8; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

Qy 2121 CCTTGTCTTACCACCTCTTTCTTTATCTTATTAATAAAAAATGTTGCTCCACCACTG 2180
Db 2653 CCTTTCTTCCCATCTCTGTACACATTTTATAAAATAGGTTGGCTTCGACTA 2712

Qy 2181 NCTCCCAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2240
Db 2713 CAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2772

Qy 2241 AA 2242
Db 2773 AA 2774

RESULT 335
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ID ACD21253 standard; cDNA; 2846 BP.
XX ACD21253;
XX AC
XX AC
XX 27-AUG-2003 (first entry)
XX Human secreted/transmembrane protein (PRO) cDNA #85.
XX Human; gene; ss; secreted and transmembrane protein; PRO; TNF-alpha;
XX tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
XX tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
XX prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX Homo sapiens.
XX US2003054483-A1.
XX 20-MAR-2003.
XX 26-JUL-2002; 2002US-00205907.
XX 05-JUN-2000; 2000US-0209832P.
XX 28-FEB-2001; 2001WO-US006520.
XX 15-JAN-2002; 2002US-00052586.
XX (GETH ) GENENTECH INC.
XX
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PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX WPI; 2003-479876/45.
DR P-PSDB; ABO15739.
XX Three hundred and five nucleic acids encoding PRO polypeptides, useful
PT for the manufacture of a medicament for diagnosing or treating tumor or
PT for measuring or detecting expression of an associated gene.
XX Claim 2; Fig 169; 699pp; English.
XX The invention discloses human nucleic acids encoding secreted and
XX transmembrane (PRO) polypeptides, with or without their associated signal
XX peptide. Also disclosed is an antibody that specifically binds to the PRO
XX polypeptide, a method for stimulating the release of tumour necrosis
XX factor alpha (TNF-alpha) from human blood by contacting the blood with a
XX PRO polypeptide, a method for stimulating the proliferation or
XX differentiation of chondrocyte cells by contacting the cells with a PRO
XX polypeptide, a method for detecting the presence of a tumour in a mammal
XX and an oligonucleotide probe derived from any of the PRO nucleotide
XX sequences. The nucleotide sequences are useful as probes, in chromosome
XX and gene mapping, in generating antisense RNA and DNA, in preparing PRO
XX polypeptides by recombinant techniques and in gene therapy (e.g. for
XX replacement of defective gene). The PRO polypeptides are useful as
XX molecular weight markers for protein electrophoresis purposes, for
XX chromosome identification, as chromosome markers, as therapeutic agents,
XX for stimulating the release of TNF-alpha from human blood, for
XX stimulating the proliferation or differentiation of chondrocytes and
XX detecting the presence, prevention and/or treatment of a tumour, such as
XX adrenal, lung, colon, breast, prostate, rectal, cervical or liver tumour.
XX The PRO polypeptides and nucleic acids may also be used diagnostically
XX for tissue typing. The sequence presented is a cDNA encoding one of the
XX PRO polypeptides of the invention. Note: The sequence data for this
XX patent can also be obtained in electronic format directly from USPTO at
XX seqdata.uspto.gov/sequence.html
SQ Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;

Query Match 3.0%; Score 66.6; DB 8; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

Qy 2121 CCTTGTCTTACCACCTCTTTCTTTATCTTATTAATAAAAAATGTTGCTCCACCACTG 2180
Db 2653 CCTTTCTTCCCATCTCTGTACACATTTTATAAAATAGGTTGGCTTCGACTA 2712

Qy 2181 NCTCCCAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2240
Db 2713 CAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2772

Qy 2241 AA 2242
Db 2773 AA 2774

RESULT 336
ABX75625
ID ABX75625 standard; cDNA; 2846 BP.
XX ABX75625;
XX AC
XX AC
XX 26-MAR-2003 (first entry)
XX Human cDNA encoding secreted/transmembrane protein, PRO1344.
XX Human; ss; gene; secreted protein; transmembrane protein; PRO;
XX antiarthritic; vulnery; tumour necrosis factor-alpha;
XX chondrocyte cell proliferation; chondrocyte cell differentiation; tumour;
XX adrenal tumour; lung tumour; colon tumour; breast tumour;
XX prostate tumour; rectal tumour; cervical tumour; liver tumour;
XX bone disorder; cartilage disorder; arthritis; sports injury.
XX
```

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OS  
XX Homo sapiens.  
PN US2003022298-A1.  
XX  
XX  
PD  
PF  
XX 30-JAN-2003.  
XX  
XX 20-JUN-2002; 2002US-00176913.  
XX  
PR 18-SEP-1997; 97US-0059263P.  
PR 18-SEP-1997; 97US-0059266P.  
PR 17-OCT-1997; 97US-0062250P.  
PR 21-OCT-1997; 97US-0063486P.  
PR 24-OCT-1997; 97US-0063120P.  
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PR 28-OCT-1997; 97US-0063541P.  
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PR 01-SEP-1998; 98US-0098716P.

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PR 01-SEP-1998; 98US-0098723P.
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PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019177.
PR 15-SEP-1998; 98US-0100388P.
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PR 17-SEP-1998; 98WO-US019437.
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PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101922P.
PR 25-SEP-1998; 98US-0101786P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
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Query Match 3.0%; Score 66.6; DB 8; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

Qy 2121 CCTTTGCTTTACCACTCTTTCTTTTATTATTAATAAATGTTGCTCCACCACTG 2180
Db 2653 CCTTTCTCTCCCATCTCTTGACACATTTTATAAATAAGGTTGGCTTCTGAAC 2712

Qy 2181 NCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2240
Db 2713 CAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2772

Qy 2241 AA 2242
Db 2773 AA 2774
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RESULT 337
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ID ACA64004 standard; cDNA; 2846 BP.
XX
AC ACA64004;
XX
DT 16-JUN-2003 (first entry)
XX
DE cDNA encoding human PRO polypeptide #19.
XX
KW Human; PRO polypeptide; secreted and transmembrane protein;
XX anti-PRO antibody; diagnostic assay; gene expression; gene; ss.
OS Homo sapiens.
XX
PN US2002182638-A1.
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XX 05-DEC-2002.
PD 02-MAY-2002; 2002US-00063547.
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PF 30-DEC-1998; 98KR-00062142.
XX 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
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PR 25-AUG-1999; 99US-00380137.
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PR 15-SEP-1999; 99US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 30-DEC-1999; 99WO-US031274.
PR 18-FEB-2000; 2000WO-US004341.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
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PR 22-MAY-2000; 2000WO-US014042.
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PR 22-AUG-2000; 2000US-00644848.
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PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
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PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 30-MAY-2001; 2001US-00870574.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 29-JUN-2001; 2001US-00869599.
PR 18-JUL-2001; 2001US-00908827.
PR 06-DEC-2001; 2001US-00006867.
XX
XX (GETH ) GENENTECH INC.
PA
XX Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX WPI; 2003-328612/04.
XX P-PSDB; ABU72305.
XX
PT An isolated secreted transmembrane polypeptide designated PRO, useful as
a therapeutic agent.
XX
XX Disclosure; Fig 37; 236pp; English.
XX
XX The present invention relates to the isolation of novel human PRO
XX polypeptides, and the polynucleotide sequences encoding them. The PRO
XX polypeptides are secreted and transmembrane proteins. The PRO
XX polypeptides and polynucleotides are useful for preparing a medicament
XX useful in the treatment of a condition responsive to anti-PRO antibody.
XX Anti-PRO antibodies are useful in diagnostic assays for PRO, by detecting
XX its expression in specific cells, tissues or serum, and for affinity
XX purification of PRO from recombinant cell culture or natural sources.
XX ACA63986-ACA64069 represent cDNA sequences encoding the human PRO
XX polypeptides of the invention
XX
SQ Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;
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Query Match 3.0%; Score 66.6; DB 8; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;
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QY 2241 AA 2242
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Db 2773 AA 2774
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RESULT 338
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ID ABX97828 standard; cDNA; 2846 BP.
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AC ABX97828;
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DT 16-MAY-2003 (first entry)
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DE Human PRO polynucleotide #85.
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KW Human; PRO; gene; ss; cytostatic; chromosome mapping; gene mapping;
KW protein electrophoresis; tumour necrosis factor-alpha; TNF-alpha; blood;
KW chondrocyte differentiation; chondrocyte proliferation; tumour.
XX
XX Homo sapiens.
XX
PN US2003032102-A1.
XX
PD 13-FEB-2003.
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PF 17-JUN-2002; 2002US-00173697.
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PR 18-SEP-1997; 97US-0059263P.
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QY 2181 NCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2240
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QY 2241 AA 2242
Db 2773 AA 2774

RESULT 342
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XX ACC91078;
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XX 19-AUG-2003 (first entry)
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XX Human; PRO; secreted protein; transmembrane protein;
XX extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
XX chondrocyte; proliferation; differentiation; cartilage disorder;
XX bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
XX adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
XX liver; drug screening; transgenic animal; genetic analysis;
XX antiarthritic; vulnery; gene therapy; gene; ss.
XX
XX Homo sapiens.
XX
XX US2003032138-A1.
XX
XX 13-FEB-2003.
XX
XX 02-JUL-2002; 2002US-00187885.
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XX 24-JUN-1998; 98US-0090540P.
XX 16-SEP-1998; 98WO-US019330.
XX 07-OCT-1998; 98WO-US021141.
XX 01-DEC-1998; 98WO-US025108.
XX 08-MAR-1999; 99WO-US005028.
XX 14-MAY-1999; 99WO-US010733.
XX 02-JUN-1999; 99WO-US012252.
XX 26-JUL-1999; 99US-0145698P.
XX 25-AUG-1999; 99US-00380137.
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XX 15-SEP-1999; 99WO-US021090.
XX 15-SEP-1999; 99WO-US021547.
XX 30-NOV-1999; 99WO-US028313.
XX 30-NOV-1999; 99WO-US028409.
XX 01-DEC-1999; 99WO-US028301.
XX 02-DEC-1999; 99WO-US028551.
XX 02-DEC-1999; 99WO-US028565.
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XX 20-DEC-1999; 99WO-US030911.
XX 30-DEC-1999; 99WO-US031274.
XX 05-JAN-2000; 2000WO-US000219.
XX 06-JAN-2000; 2000WO-US000376.
XX 11-FEB-2000; 2000WO-US003565.
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XX 24-FEB-2000; 2000WO-US004914.
XX 24-FEB-2000; 2000WO-US005004.
XX 01-MAR-2000; 2000WO-US005601.
XX 02-MAR-2000; 2000WO-US005841.
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PR 10-MAR-2000; 2000WO-US006319.
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PR 24-AUG-2000; 2000WO-US023328.
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PR 20-JUN-2001; 2001WO-US019692.
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PR 09-JUL-2001; 2001WO-US021735.
PR 29-AUG-2001; 2001WO-US027099.
PR 15-JAN-2002; 2002US-00052586.
XX
XX (GETH ) GENENTECH INC.
XX
XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI; 2003-341977/32.
XX P-PSDB; ABR70047.
XX
XX New secreted and transmembrane PRO polypeptide useful in preparing a
XX medicament for treating a condition that is responsive to the PRO
XX polypeptide or anti-PRO antibody.
XX
XX Claim 2; Fig 169; 707pp; English.
XX
XX The invention relates to human PRO secreted/transmembrane polypeptides
XX (ABR69963-ABR70267) and nucleic acids encoding them (ACC90994-ACC91298).
XX The invention also relates to sequences at least 80% identical to the PRO
XX nucleic acid and polypeptide sequences of the invention, recombinant
XX vectors and host cells comprising a PRO nucleic acid, a method for the
XX recombinant production of a PRO polypeptide, antibodies against a PRO
XX polypeptide, and fusion proteins comprising a PRO polypeptide. Nucleic
XX acids encoding PRO polypeptides of the invention were initially
XX identified via homology screening using consensus sequences based on the
XX extracellular domain sequences from known secreted proteins. Human cDNA
XX libraries containing sequences of interest were identified using
XX oligonucleotides based on the consensus sequences, and cDNA clones were
XX isolated and characterised. The PRO polypeptides are useful for
XX stimulating release of tumour necrosis factor-alpha (TNF-alpha) from
XX human blood and may thus be used in the treatment of conditions in which
XX enhanced TNF-alpha release would be beneficial. They are also useful for
XX stimulating the proliferation or differentiation of chondrocytes and as
XX such may be used in the treatment of various bone and/or cartilage
XX disorders such as arthritis and sports injuries. The PRO polypeptides may
XX be used in a method for detecting the presence of a tumour (e.g., an
XX adrenal tumour, lung tumour, colon tumour, breast tumour, prostate
XX tumour, rectal tumour, cervical tumour or liver tumour) in a mammal. This
XX method involves comparing the level of expression of the PRO polypeptide
XX in test and control samples, where a higher level of expression of PRO
XX polypeptide in the test sample as compared to the control sample is
XX indicative of the presence of a tumour. The PRO polypeptides are
XX additionally useful for in drug screening to identify agonists and
XX antagonists of PRO polypeptides. PRO nucleic acids are useful as
XX hybridisation probes for isolation of cDNA molecules), in chromosome and
XX gene mapping, in the generation of antisense RNA and DNA and in gene
XX therapy. The nucleic acids can also be used for mapping genes encoding
XX PRO polypeptides, for genetic analysis of individuals with genetic
XX disorders, and for generating either transgenic animals or knock-out
XX animals which are useful in the development and screening of
XX therapeutically useful compounds. Sequences ACC90994-ACC91298 represent
XX cDNAs encoding the human PRO secreted/transmembrane polypeptides of the
XX invention. Note: The sequence data for this patent is also available in
XX electronic format from USPTO at seqdata.uspto.gov/sequence.html
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      Best Local Similarity 71.3%; Pred. No. 0.00023;
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QY 2241 AA 2242
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Db 2773 AA 2774

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XX AC ACCG8820;
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XX DT 11-AUG-2003 (first entry)
XX DE Human secreted polypeptide PRO1344-encoding cDNA, SEQ ID NO:169.
XX KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy; gene; ss.
XX OS Homo sapiens.
XX XX
XX PN US2003036132-A1.
XX XX
XX PD 20-FEB-2003.
XX XX
XX PF 28-JUN-2002; 2002US-00184629.
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XX WPI; 2003-341328/32.  
DR P-PSDB; ABO01521.  
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XX Three hundred and five nucleic acids encoding secreted and transmembrane  
PT polypeptides, designated as PRO, useful for detecting the presence of, or  
PT treating tumor, e.g. adrenal, lung, colon, breast, prostate, rectal,  
PT cervical or liver tumor.  
XX  
XX Claim 2; Fig 169; 707pp; English.  
XX  
XX The invention relates to human PRO polypeptides (secreted and  
CC transmembrane polypeptides) and the polynucleotides encoding them. The

CC invention also relates to an antibody that specifically binds to a PRO  
CC polypeptide, a method for stimulating the release of tumour necrosis  
CC factor alpha (TNF-alpha) from human blood by contacting the blood with a  
CC PRO polypeptide and a method for stimulating the proliferation or  
CC differentiation of chondrocyte cells by contacting the cells with a PRO  
CC polypeptide. The polypeptides and polynucleotides are useful for  
CC detecting the presence of a tumour, such as an adrenal, lung, colon,  
CC breast, prostate, rectal, cervical or liver tumour, and for treating such  
CC tumours. The polynucleotides are useful as hybridisation probes, in  
CC chromosome and gene mapping and in generating antisense RNA or DNA. The  
CC polypeptides are useful as pharmaceuticals, diagnostics, biosensors or  
CC bioreactors. Both are useful in tissue typing. Sequences ACD06933-  
CC ACD07237 represent human PRO polynucleotides of the invention. Note: The  
CC sequence data for this patent is also available in electronic format from  
CC USPTO at seqdata.uspto.gov/sequence.html  
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XX bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
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XX antiarthritic; vulnery; gene therapy; gene; ss.
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XX
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RESULT 350
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ID ACC89741 standard; cDNA; 2846 BP.
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XX extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy; gene; ss.
XX Homo sapiens.
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XX 06-FEB-2003.
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KW tumour necrosis factor alpha; TNF-alpha; chondrocyte; tumour.
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